



March 25–27, 2025
Pasadena Convention Center
Pasadena, CA

Final Program

www.aphl.org/IDLabCon

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Convention Center Floor Plan



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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Welcome to ID Lab Con 2025!

INSERT WELCOME LETTER

Co-chair, ID Lab Con 2025
Planning Committee

Co-chair, ID Lab Con 2025
Planning Committee

General Information

Meeting Location

The APHL 2025 ID Lab Con is being held at the Pasadena Convention Center, 300 E Green St, Pasadena, CA 91101, 626.793.2122. It is located in downtown Pasadena, walking distance to numerous restaurants, shops and entertainment.

Registration Hours

Monday, March 24	4:00 pm – 7:00 pm
Tuesday, March 25	7:00 am – 5:30 pm
Wednesday, March 26	7:00 am – 5:30 pm
Thursday, March 27	7:00 am – 12:30 pm

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

Network: IDLabCon2025

Access Code: APHL

Enhance Your Experience with the Mobile App

Available in your app store! Search for "APHL Conferences" in your app store to download; within the app, you'll find the ID Lab Con event. You must log in with a username and password emailed to each registrant from APHL in the week before the conference.

Access details on sessions, posters and exhibitors before the conference and onsite; navigate the convention center; personalize your experience by tagging sessions, exhibitors and creating exportable notes. Receive alerts, reminders and changes in real time.

Session evaluations must be completed in the app in order to receive P.A.C.E.® credit.

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 Wednesday, March 26. Be sure to include your name on the card.

Winners of the prizes will be announced starting at 2:30 pm on Wednesday, March 26 in the Exhibit Hall. You must be present to win.

Prizes include:

- **Applied BioCode** — \$100 Amazon Gift Card
- **Clear Labs** — \$100 Vis Gift Card
- **GT Molecular** — Gift Box and \$25 Visa Gift Card (Valued at \$125)
- **QIAGEN** — Spring Gift Basket (Valued at \$100)
- **QuantaBio** — Meta Quest 3: Mixed Reality VR Headset (Valued at \$499)
- **RedbudLabs** — Southern Charm Gift Basket (valued at \$100)
- **Stat Courier** — \$100 Amazon Gift Card

Exhibit and Poster Hall Hours

Monday, March 24	2:00 pm – 5:00 pm	Exhibitor Set-up
Tuesday, March 25	7:00 am – 9:30 am	Exhibitor Set-up
	10:00 am – 6:30 pm	Exhibit Hall Open
	10:00 am – 10:30 am	Morning Break
	3:00 pm – 3:30 pm	Afternoon Break
	5:00 pm – 6:30 pm	Welcome Reception
Wednesday, March 26	10:00 am – 3:00 pm	Exhibit Hall Open
	10:30 am – 11:00 am	Morning Break
	12:00 pm – 1:00 pm	Lunch in the Exhibit Hall
	2:30 pm – 3:00 pm	Afternoon Break and Raffle
	3:00 pm – 8:00 pm	Exhibits Break-down
Thursday, March 27	(No Exhibit Hall)	

Schedule of Events

Monday, March 24, 2025

9:00 am – 4:00 pm **Preconference Workshops**

The Power to Resist: Labs vs. Antimicrobial Resistance

Ballroom A

588-508-25 • 5.25 contact hours for this session

Speakers

- Romney Humphries, PhD, D(ABMM), Vanderbilt University
- Kimberly McCullor, PhD, MSc, Michigan Department of Health & Human Services—Bureau of Laboratories
- Jean Patel, PhD, D(ABMM), JBP Microbiology Consulting
- Robert Potter, PhD, D(ABMM), Children’s Hospital of Philadelphia
- Paula Vagnone, MT(ASCP), Minnesota Department of Health Public Health Laboratory

Diagnostic Approaches to Emerging Infectious Diseases

Ballroom B

588-507-25 • 5.25 contact hours for this session

Speakers

- Henry Bishop
- Amy B. Dean, PhD, New York State Department of Health – Wadsworth Center
- Julianne V. Kus, MSc, PhD, FCCM, Public Health Ontario
- Amy L. Leber, PhD, D(ABMM), SM(ASCP)MB, Nationwide Children’s Hospital
- Kimberly McCullor, PhD, MSc, Michigan Bureau of Laboratories
- Anisha Misra, PhD, D(ABMM), Cleveland Clinic
- Benjamin Pinsky, MD, PhD, Stanford University School of Medicine
- Marty K. Soehnlen, PhD, MPH, PHLD(ABB), Michigan Bureau of Laboratories

Next Steps for Next Generation Sequencing

Ballroom C

588-512-25 • 5.25 contact hours for this session

Speakers

- Heather Blankenship, PhD, Michigan Department of Health and Human Services
- Daniel Evans, MS, Minnesota Department of Health
- Kelsey Florek, PhD, Wisconsin State Laboratory of Hygiene
- Christin L. Hanigan, PhD, Association of Public Health Laboratories
- Kelly Oakeson, PhD, Utah Department of Health and Human Services

Monday, March 24

Assuring Regulatory Compliance in an Era of Change: What's a Lab to Do?

Ballroom D

588-510-25 • 4.75 contact hours for this session

Speakers

- Sarah Buss, PhD, D(ABMM), Association of Public Health Laboratories
- Jonathan R. Genzen, MD, PhD, ARUP Laboratories
- Karen Harrington, PhD, HCLD(ABB), Hologic
- Kara Levinson, PhD, MPH, D(ABMM), Tennessee Department of Health
- Beth M. Marlowe, PhD, D(ABMM), SM(ASCP), Quest Diagnostics
- Kimberlee A. Musser, PhD, Wadsworth Center
- Susan E. Realegeno, PhD, D(ABMM), M(ASCP), Quest Diagnostics

Optimizing Mycobacteriology Laboratory Operations: Strategies for Supervisor Success

Ballroom F

588-509-25 • 5.25 contact hours for this session

Speakers

- Emily Craig, MS, M(ASCP), Virginia Division of Consolidated Laboratory Services
- Erin Estes, MBA, MLS(ASCP), Association of Public Health Laboratories
- Drew Francis, M(ASCP) CM, Arizona State Public Health Laboratory
- Julie Higashi, MD, PhD, Los Angeles County Public Health Laboratory
- Hector Rivas, BS, MPH, PHM, Los Angeles County Public Health Laboratory
- Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories
- Angie Schooley, MT(ASCP), Michigan Department of Health and Human Services

Biosafety Practices for the Clinical and Public Health Laboratorian

Ballroom G

588-511-25 • 5.25 contact hours for this session

Speakers

- Erin Bowles, BS, MLS(ASCP), Wisconsin State Laboratory of Hygiene
- Shoolah Escott, MS(MLS), MT(ASCP), ABSA International
- Michael Pentella, PhD, D(ABMM), Iowa State Hygienic Laboratory
- Michael Perry, DrPH, MS Ed, Wadsworth Center

4:00 pm – 7:00 pm Registration

Ballroom DE

Tuesday, March 25, 2025

7:00 am – 5:30 pm Registration

Ballroom DE

8:30 am – 10:00 am Opening Session

Ballroom DE

588-801-25 • 1 contact hour for this session

Moderator: Marty Soehnlen

Welcome to Pasadena: Marty Soehnlen, PhD, MPH, PHLD(ABB), Michigan Department of Health and Human Services, Bureau of Laboratories, Nicole M. Green, PhD, D(ABMM), Los Angeles County Public Health Laboratory

Keynote Address: Grace Aldrovandi, MD, CM, UCLA Mattel Children's Hospital

10:00 am – 10:30 am Morning Break and Poster Viewing (Session A)

Exhibit Hall A-B

Exhibit Hall Open

10:30 am – 12:00 pm Plenary Session

Ballroom DE

Late Breaker! Responding to Highly Pathogenic Avian Influenza

588-802-25 • 1.5 contact hours for this session

Moderator: Emily Travanty, PhD, Colorado State Public Health Laboratory

1. **Zoonotic Spread of Influenza A(H5N1)**
Julie E. Breher, DVM, MPVM, County of San Diego Health and Human Services Agency
2. **Influenza A (H5N1) Outbreak Response in California**
Anthony Tran, PhD, (ABMM), California Department of Public Health
3. **The Academic Medical Center Perspective**
Benjamin Pinsky, MD, PhD, Stanford Health Care
4. **Monitoring the Outbreak in Cats**
Brandon Bonin, PhD, Santa Clara County Public Health Laboratory

12:00 pm – 1:00 pm Lunch (on your own)

1:00 pm – 3:00 pm Concurrent Sessions

Session 1: The Backbone of Genomics: Building Infrastructure for Next-generation Sequencing

Ballroom B

588-803-25 • 2 contact hours for this session

Moderator: Megan Fuschino, MS, Wadsworth Center

1. **Building Cloud-base Bioinformatics Capacities — A Public Health Laboratory Perspective**
Jie Lu, PhD, Texas Department of State Health Services

Tuesday, March 25

2. **Validation of Multiple, Independent Analysis Platforms for Bacterial Sequencing Data in the Next Generation Sequencing Laboratory**
Eric Vaughn, DrPH, MPH, Department of Forensic Sciences — Public Health Laboratory
Washington DC
3. **A Sustainable Solution for Tracking NGS Workflows**
Sarah Preston, MS, Kentucky Division of Laboratory Services
4. **Integrating Quality Systems Essentials in Next Generation Sequencing**
Noah Hull, PhD, MPH, Association of Public Health Laboratories

Session 2: Novel Approaches in Antimicrobial Resistance Detection: Innovations in Laboratory Testing

Ballroom DE

588-804-25 • 2 contact hours for this session

Moderator: William Glover, PhD, NC PHL

1. **Performance Evaluation of the Bruker MBT STAR-CARBA at the Arizona State Public Health Laboratory**
Katherine Nordell, MLS (ASCP), SM, Arizona Department of Health Services
2. ***Mycoplasma genitalium* and Macrolide Resistance Detection Rates in Urogenital Samples at a National Reference Laboratory**
Salika Shakir, PhD, D(ABMM), ARUP Laboratories
3. **Enhancement of a Carbapenemase Producing Organism Colonization Screening Workflow: Decreasing Time, Increasing Data and Maximizing Resource Capabilities**
Majie Foster, PhD, Wadsworth Center
4. **Genomic Basis for Antibiotic Resistance in Clinical *Tsukamurella* Strains**
Robert Potter, PhD, D(ABMM), Children's Hospital of Philadelphia

3:00 pm – 3:30 pm

Exhibit Hall A-B

Afternoon Break and Poster Viewing (Session A)

Exhibit Hall Open

3:30 – 5:00 PM

Ballroom DE

Plenary Session

Combating Misinformation in Laboratory Science with Those Nerdy Girls

588-805-25 • 1.5 contact hours for this session

Moderator: Beth M. Marlowe, PhD, D(ABMM), SM(ASCP), Quest Diagnostics

Employ tools to establish trust with their audiences, communicate uncertainty effectively and present data in a transparent and approachable manner without oversimplifying.

- Amanda M. Simanek, PhD, MPH, Those Nerdy Girls
- Gayle Mendoza, MPH, BSN, RN, Those Nerdy Girls
- Roopa Seshadri, PhD, AM, Those Nerdy Girls

5:00 pm – 6:30 pm

Exhibit Hall A-B

Reception in Exhibit Hall

Agenda continues on page 15

Wednesday, March 26, 2025

7:00 am – 5:30 pm Registration

Ballroom DE

7:30 am – 8:00 am Partners in Technology Sunrise Sessions

Ballrooms A, B, C, F, G

See the next 3 pages for details on these sessions.

9:00 am – 10:30 am Plenary Session

Ballroom DE

Next Generation Sequencing Applications in Infectious Disease Testing

588-806-25 • 1.5 contact hours for this session

Moderator: David Payne, PhD, City of Milwaukee Health Department

1. **Genomic and Epidemiologic Characteristics of SARS-CoV-2 Persistent Infections in California, January 2021 – July 2023**
Rahil Ryder, MS, California Department of Public Health
2. **Whole-genome Sequencing Surveillance of *C. auris* Nevada Reveals the Evolution of a Novel Amphotericin B Non-susceptibility and a Potential Pan-resistant Isolate**
David Hess, PhD, Nevada Public Health Laboratory
3. **Implementation of a CLIA-compliant Targeted Next Generation Sequencing Assay for the Detection of *Mycobacterium tuberculosis* Antimicrobial Resistance Mutations**
Matthew Schimenti, MPH, M(ASCP), Florida Department of Health
4. **Presentation 4**
Michael Perry, DrPH, MS Ed, Wadsworth Center, New York State Department of Health

10:30 am – 11:00 am Morning Break in the Exhibit Hall and Poster Viewing (Session B)

Exhibit Hall A-B

11:00 am – 12:00 pm Plenary Session

Ballroom DE

A Review of This Year's Literature: Session A

588-807-25 • 1 contact hour for this session

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

1. **The State of the Science: Changes in Nomenclature**
Ryan F. Relich, PhD, D(ABMM), MLS(ASCP) SM, Indiana University Health
2. **The State of the Science: Mycobacteriology**
Edward P. Desmond, Ph.D., D(ABMM), Hawaii Public Health Laboratory
3. **The State of the Science: Respiratory Viruses**
Emily Toth Martin, PhD, MPH, University of Michigan School of Public Health

Partners in Technology Spotlight Sessions

Wednesday, March 26, 7:30 – 8:00 am PST

The Partners in Technology Spotlight Sessions will be held in Ballrooms A, B, C, F, G, located on first level, across from the exhibit hall. A continental breakfast and coffee service will be provided for the attendees.

Confidence for Today, Protection for Tomorrow: How a Global Network of Virus Hunters is Transforming Healthcare by Staying One Step Ahead

presented by Molecular Diagnostics of Abbott

Room: Ballroom A

It's critical that we stay one step ahead of viral threats as known viruses evolve and new pathogens emerge faster than ever before. Abbott has expanded on decades of viral surveillance to identify, track, and respond more quickly to these threats through the Abbott Pandemic Defense Coalition.

Join us to learn more about this first-of-its-kind global network that is dedicated to ending current epidemics and helping to prevent future pandemics and the impact we've had in helping provide laboratorians confidence for today and protection for tomorrow

Speaker: Mark Anderson PhD, Principal Scientist, Infectious Disease Research, Abbott Diagnostics

Get Closure! Sequence More Microbes, More Completely with Any Length Nanopore Reads

presented by Oxford Nanopore Technologies

Room: Ballroom C

Microbial genomes are complex but sequencing them doesn't have to be.

This session will explore Oxford Nanopore's cost-effective solutions for microbial whole genome and targeted sequencing, with a focus on enabling antimicrobial resistance detection. Additionally, we will introduce our newest application for rapid metagenomic sequencing for bacterial, fungal, and viral pathogen surveillance.

Speaker: Anna Maria Niewiadomska, PhD, Oxford Nanopore Technologies

Simplifying HIV Screening Approaches: One Step at a Time

presented by Roche Diagnostics

Room: Ballroom B

This session will highlight an innovative, two-step, approach to HIV screening methodology. We will explore how alternative processes can optimize and improve laboratory efficiency while positively impacting patient care. This session will equip attendees with vital insights, through real-world data, into screening advancements that will ultimately enhance the management of HIV and support the broader public health initiatives for Ending the HIV Epidemic (EHE).

Speaker: Tiffani Jones, PhD, Scientific Liaison, Molecular and Infectious Disease, MSA

Wednesday, March 26

Empowering Public Health: Thermo Fisher Genetic Sciences' Complete Workflow Solutions for Enhanced Customer Success

presented by Thermo Fisher Scientific

Room: Ballroom G

Learn about the variety of Thermo Fisher's offerings in the infectious disease space to help solve challenges in public health. This talk will delve into the comprehensive workflow solutions provided by Thermo Fisher Genetic Sciences, showcasing how their innovative technologies and integrated systems are designed to enhance the detection, analysis, and management of infectious diseases.

Speaker: Brunie White, PhD, Regional Applications Specialist, Genetic Testing Solutions

Wednesday, March 26, 8:15 – 8:45 am PST

Opus In Action: Real-time PCR Answers for Infectious Disease

presented by Bio-Rad Laboratories

Room: Ballroom B

Discover how the CFX Opus Dx Real-Time PCR System harmonizes accuracy, ease of use, and cost-effective operation, empowering public health labs to deliver reliable results with confidence. Its open, flexible system enables seamless integration and simplifies assay development.

Speaker: Christian Overgaard, PhD, Field Application Specialist, Bio-Rad Laboratories, Inc.

Automated Flu A Subtyping: Meeting the Testing Demands of Today and Building Capacity for Tomorrow

presented by Hologic

Room: Ballroom C

Join us for an insightful session where we will explore recent developments in Flu A subtyping with experts representing a leading reference laboratory and a public health laboratory. During this session, our panel will discuss their perspectives and responses to the recent Flu A subtyping public advisory and current efforts to develop automated Flu subtyping LDTs to address today's testing needs while scaling up testing capacity for the future. .

Speaker: Dr. Nicole Green, LA County Public Health Labs and Dr. Michael Pyne, ARUP Laboratories

Moderator: Ashley Nenninger, Hologic Senior Scientific Affairs Manager, Hologic

LabConnect: Streamlining Lab Workflows & Interoperability

presented by Primary.Health

Room: Ballroom F

In an era of increasing data complexity, LabConnect provides a LIMS-agnostic solution to streamline lab workflows, automate order entry, and enhance interoperability. This session will explore how LabConnect minimizes manual data entry through OCR requisition scanning, bulk uploads, and lab-to-lab order routing, reducing inefficiencies and improving turnaround times.

Learn how public health labs can leverage LabConnect to modernize operations and meet compliance standards while improving provider and patient data management.

Speaker: Jack Hysell, Director of Integrations & Digital Partnerships and Devon Phillips, Head of Strategic Initiatives, Primary.Health

Unlocking Microbial Insights: Harnessing Hybrid Capture Sequencing for Enhanced Pathogen Detection

presented by QIAGEN

Room: Ballroom A

Explore how hybrid capture sequencing is enhancing microbial genomics by enabling deeper, more comprehensive pathogen detection and characterization. This presentation will highlight various workflows where hybrid capture offers advantages over traditional methods, showcasing its ability to uncover low-abundance and novel microbes.

The presentation will also discuss when other approaches may be more appropriate, providing a balanced perspective on advancing infectious disease research and surveillance.

Speaker: Joshua Boston and Heather Blankenship, QIAGEN

Detecting Human Influenza, Coronavirus, Avian Influenza and Other Infectious RNA Virus Pathogens with High Limits of Detection Using Sustainable eQo 1-Step ToughMix

presented by Quantabio

Room: Ballroom G

The critical need for high sensitivity in detecting low copies of RNA viruses and human pathogens prompted the development of eQo 1-Step ToughMix, addressing a significant public health challenge. eQo 1-Step ToughMix features a thermostable and inhibitor-tolerant reverse transcriptase combined with an optimized buffer system that enables the detection of RNA pathogens, such as human influenza, coronavirus, avian influenza, and other infectious RNA viruses, from both pure and crude RNA samples, with detection limits as low as two target copies.

Speaker: Subrata Panja

The Fungus Among Us – Detecting *Candida auris* Colonization and Yeast Bloodstream Infections

presented by Diasorin

Room: Ballroom F

Candida auris has emerged as a public health threat due to its multidrug-resistance and ability to spread in healthcare facilities. Fungal bloodstream infections (BSIs) represent a serious and often life-threatening condition that have been increasing over the past few decades. This session will provide an overview of *C. auris* colonization and fungal BSIs, as well as Diasorin's novel testing solutions: the Simplexa® *C. auris* Direct assay and the LIAISON PLEX® Yeast Blood Culture Assay.

Speaker: Sarah Elliott, PhD, Principal Scientist, Scientific Affairs Diasorin

Wednesday, March 26

12:00 pm – 1:00 pm Lunch in the Exhibit Hall

Exhibit Hall A-B

1:00 pm – 2:30 pm Concurrent Sessions

Discoveries and Investigations in Emerging Infectious Diseases

Ballroom DE

588-808-25 • 1.5 contact hours for this session

Moderator: Casey L. C. Schroeder, PhD, MLS(ASCP), MB, SM, Texas Department of State Health Services

1. **Recognition of a New Rickettsial Pathogen, *Candidatus R. lanei*, as the Cause of Rocky Mountain Spotted Fever-like Illness in Northern California**
Chantha Kath, PHM, BS, California Department of Public Health
2. **Outbreak Response Testing of Measles in Migrant Shelters — Chicago, 2024**
Kendall Anderson, MS, MPH, MB(ASCP), Chicago Department of Public Health
3. **Once Bitten, Twice Shy**
Andrea Morrison, PhD, Florida Department of Health
Marie-Claire Rowlinson PhD, D(ABMM), Florida Bureau of Public Health Laboratories

Sewage Sleuths: Tracking Health Trends Through Wastewater

Ballroom B

588-809-25 • 1.5 contact hours for this session

Moderator: Nicole M. Green, PhD, D(ABMM), Los Angeles County Department of Public Health

1. **From Pipes to Patterns: Tracking Antimicrobial Resistance in Hawaiian Wastewater**
Doris Di, PhD, Hawaii State Department of Health
2. **COVID-19 Wastewater Surveillance: Sampling Frequency and Hospitalization Trends**
Ryan Jepson, State Hygienic Laboratory at the University of Iowa
3. **Wastewater-based Surveillance of Norovirus in Wisconsin: A Comparison of Wastewater Concentrations with Clinical PCR Positivity Rates**
Devin Everett, Wisconsin State Laboratory of Hygiene

2:30 pm – 3:00 pm

Exhibit Hall A-B

**Afternoon Break in the Exhibit Hall and
Poster Viewing (Session B)**

Exhibit Hall Closes at 3:00pm

Raffle Drawing

Wednesday, March 26

3:00 pm – 4:00 pm Plenary Session

Ballroom DE

Reaching the Hard-to-Reach Populations in Infectious Disease Diagnostics

588-810-25 • 1 contact hour for this session

Moderator: Marilyn Bibbs-Freeman, PhD, M(ASCP), Virginia Division of Consolidated Laboratory Services

1. **Point-of Care Diagnostics Provide Better Access to Healthcare**
Omai Garner PhD, D(ABMM), Clinical Microbiology Director, Department of Pathology and Laboratory Medicine

4:00 pm – 5:30 pm Plenary Session

Ballroom DE

Update on Laboratory Aspects of Nontuberculous Mycobacteria

588-811-25 • 1.5 contact hours for this session

Moderator: Max Salfinger, MD, FAAM, FIDSA, ATSF, University of South Florida College of Public Health

1. **Epidemiology of NTM Pulmonary Disease and Healthcare Provider's Need for the Mycobacteriology Laboratory**
Jane E. Gross, MD, PhD, University of North Carolina
2. **Environmental NTM: Ways to Protect the Public Via the Laboratory**
Jennifer R. Honda, PhD, ATSF, The University of Texas at Tyler Health Science Center
3. **Workup of Clinical Samples for NTM in a Clinical Laboratory**
Susan Butler-Wu, PhD, D(ABMM), SM(ASCP), University of Southern California
4. **Workup of Clinical Samples for NTM and the Role of Whole Genome Sequencing in a Public Health Laboratory**
Alana Sterkel, PhD, D(ABMM), SM(ASCP), Wisconsin State Laboratory of Hygiene

Thursday, March 27, 2025

7:00 am – 12:30 pm Registration

8:30 am – 9:30 am Plenary Session

Ballroom DE

A Review of This Year's Literature: Session B

588-812-25 • 1.5 contact hours for this session

Moderator: Vaneet Arora, MD, MPH, D(ABMM), Kentucky State Public Health Laboratory

1. **State of the Science: Wastewater Surveillance**
Shannon R. Matzinger, PhD, Colorado Department of Health
2. **State of the Science: Antimicrobial Resistance**
Kimberlee A. Musser, PhD, Wadsworth Center
3. **State of the Science: Vector Borne Diseases**
Natasha Tilston-Lunel, PhD, Indiana University School of Medicine

10:00 am – 10:30 am Morning Break

Ballroom DE Foyer

10:30 am – 12:00 pm Closing Session

Ballroom DE

Alternative Specimen Sourcing for Effective Infectious Disease Testing

588-813-25 • 1.5 contact hours for this session

Moderator: Randal Fowler, PhD, D(ABMM), Tennessee Department of Health

1. **Evaluation of a Fingerstick Blood Self-microcollection Method for Remote Monitoring of HIV Suppression: Project Home-MaDE**
Jeffrey Johnson, MS, PhD, Centers for Disease Control and Prevention,
Division of HIV Prevention
2. **Your Place or Mine? Innovations in Home Collection for STI Testing**
Stacey Beal, MD, LetsGetChecked Labs
3. **You Never Forget Your First Time — FDA De Novo Clearance of Home Collection for CT/NG Assay**
Breland Hockman, PhD, CCRP, CPI, NRCC, DABCC, LetsGetChecked Labs
4. **Evaluation of the Performance and Acceptability of Mailed Dried Blood Spots for HIV and Syphilis Screening**
Johan Melendez, PhD, MS, Johns Hopkins Medicine

12:00 – 12:30 pm

Awards and Closing Remarks

Megan Crumpler, PhD, HCLD, Orange County
Public Health Laboratory

12:30 pm

Conference Adjourns

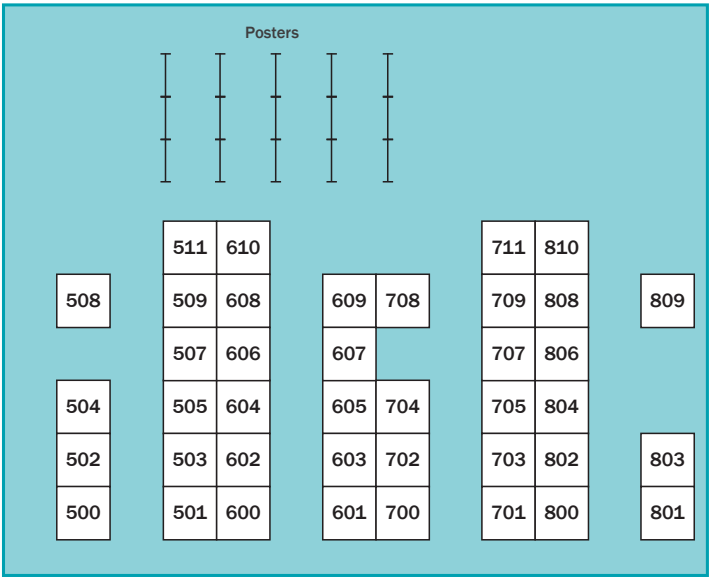
Thursday, March 27

Exhibit Hall Map

Exhibitors

600	Abbott Molecular, Inc.	511	New England Biolabs
608	Anchor Molecular, Inc.	502/504	Next Generation Diagnostics
609	APHL Career Pathways	705	Oxford Nanopore Technologies
808	Applied BioCode	500	Primary.Health
505	bioMérieux	606	QIAGEN
704	Bio-Rad Technologies	601	Quantabio
803	Bruker	703	QuidelOrtho
809	BugSeq Bioinformatics Inc.	610	Redbud Labs, Inc
503	Cepheid	709/711	Roche Diagnostics
707	Clear Labs, Inc.	508	Seegene USA
507	Diasorin	702	STAT Courier Service Inc.
603	EUROIMMUN US	804	Streck
701	Genstar Technologies Co., Inc.	806	Tecan
810	GT Molecular, Inc.	700	TECHLAB, Inc.
800/802	Hologic	801	Theiagen Genomics
501	Illumina	602/604	Thermo Fisher Scientific
607	Longhorn Vaccines and Diagnostics	605	Twist Bioscience
		708	World BioHazTec

Pasadena Convention Center, Exhibit Hall A



▲
Entrance

Exhibitors

Abbott Molecular Inc.

Platinum Member • 600

1300 Touhy Ave.
Des Plaines, IL 60018
210.381.0612 • 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.

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APHL offers a variety of opportunities to explore career pathways in public health laboratory science. We support professional development experiences for current students, early career scientists and established laboratorians. Learn more at: www.aphl.org/Career-Pathways.

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Applied BioCode

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Multiplex MDx Panels
for **Reliable**
Pathogen
Detection?



Visit Booth #808

BioCode's molecular diagnostic solution delivers clinically actionable results through syndromic disease testing. Specifically designed for hospital and reference labs, it offers medium - high throughput capabilities for enhanced efficiency and affordability.

Why Choose Us?



HT Multiplexing:
Process 188
samples/day.



Masking Option:
Flexible result
reporting.



Cost Effective:
Low
operational cost.



17-plex
GI Panel*



17-plex
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Posters

Tuesday, March 25, 10:00 am – 6:30 pm

Diagnostic Microbiology (posters 01T–17T)
Global Health (18T–22T)
Infectious Disease Outbreak and Surveillance (23T–48T)
One Health (49T)



Wednesday, March 26, 10:00 am – 3:00 pm

Biosafety and Biosecurity (01W–02W)
Emerging Technologies (03W–014W)
Infectious Disease Outbreaks and Surveillance (15W–46W)
Laboratory Operations and Regulatory Affairs (47W–50W)

Full poster abstracts

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

Tuesday, March 25, 2025

Diagnostic Microbiology (01T–17T)

Poster 01T

SNP Distribution of AMR Genes on Nanopore Reads

E. Young, J. Wagner, K. Oakeson, and J. Hergert, Utah Public Health Laboratory, Department of Health and Human Services, State of Utah

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

Poster 02T

Validation of the Single Target Aptima *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Assays for Adult and Pediatric Samples on the Hologic Panther System

M. Bennett, and S. Shakir, ARUP Laboratories

Presenter: Salika Shakir, University of Utah/ARUP Laboratories, salika.shakir@aruplab.com

Poster 03T

Investigating Whole Blood as an Improved Sample Type for West Nile Virus Testing

S. Hepp, M. Deldari, R. Deleon, M. Salas, D. Lemoine, B. Stavig, J. Cayabyab, S. Getabecha, N. Gao, C. Tran, C. Glaser, and S. Messenger, Viral and Rickettsial Diseases Laboratory Branch, Center for Laboratory Sciences, California Department of Public Health, Richmond, CA

Presenter: Joseph Tran, California Department of Public Health, joseph.tran@cdph.ca.gov

Poster 04T

Aztreonam Plus Ceftazidime-Avibactam Broth Disk Elution for Metallo- β -lactamase-producing Enterobacterales

J. Kuya, A. Yoxheimer, J. Kelly, and K. McCullor, Michigan Department of Health and Human Services

Presenter: Julius Kuya, Michigan Department of Health, kuyaj@michigan.gov

Poster 05T

Malaria Multiplex Real-time PCR Assay: Enhanced Detection of Mixed Species Malaria Infections

M. Purucker, C. Nguyen, and Y. Qvarnstrom, Centers for Disease Control and Prevention

Presenter: Matthew Purucker, CDC, tqk1@cdc.gov

Poster 06T

Characterization of a Real-time RT-PCR Assay for New World Orthohantavirus Detection

S. Hepp¹, M. Deldari¹, S. Whitmer², M. Morales-Betoulle², L. Sayyad², J. Montgomery², and S. Messenger¹, ¹Viral and Rickettsial Diseases Laboratory Branch, Center for Laboratory Sciences, California Department of Public Health, Richmond, CA, ²Viral Special Pathogens Branch, The US Centers for Disease Control and Prevention, Atlanta, GA

Presenter: Susan Hepp, California Department of Public Health, susan.hepp@cdph.ca.gov

Poster 07T

Fully Automated Whole Genome Sequencing of *Mycobacterium tuberculosis* in Public Health Laboratories

J. Ng¹, L. Castro², A. Allred¹, D. Siao³, E. Wong², M. Pandori³, G. Masinde², and R. Khaksar¹, ¹Clear Labs, ²San Francisco Public Health Laboratory, ³Nevada State Public Health Laboratory

Presenter: Justin Ng, Clear Labs, justin.ng@clearlabs.com

Poster 08T

Robust Performance and Diverse Applications of the Clear Dx Fully Automated Genomics Solution

J. Ng, K. Rhoden, S. Mortazavi, D. Tran, S. Hoeffel, P. Avutala, A. Paropkari, N. Ordaz-Yuan, A. Jorjorian, D. Carter-House, A. Lin, C. Lee, A. Allred, S. Shokralla, and R. Khaksar, Clear Labs

Presenter: Justin Ng, Clear Labs, justin.ng@clearlabs.com

Poster 09T

Development of Multiplex Real-time Polymerase Chain Reaction Assays for *Mycobacterium abscessus* Species/Subspecies Identification and Detection of Macrolide Resistance

S. Rao, California Department of Public Health

Presenter: Sphoorthy Rao, California Department of Public Health, Sphoorthy.Rao@cdph.ca.gov

Poster 10T

Use of Historic Testing Review to Guide Shiga-toxin Producing *Escherichia coli* (STEC) Testing Workflow Improvement

Q. Patterson, B. Kaneko, Y. Zhao, M. Shiozaki, J. Zhu, G. Inami, and S. Abromaitis, California Department of Public Health

Presenter: Stephanie Abromaitis, California Department of Public Health, stephanie.abromaitis@cdph.ca.gov

Poster 11T

Development of a Real-time PCR Assay for the Detection of *Mycobacterium gordonae* at the Wisconsin State Laboratory of Hygiene

C. Seehafer, N. Mack, N. Simon, L. Louison, and A. Bateman, Wisconsin State Laboratory of Hygiene

Presenter: Carter Seehafer, Wisconsin State Laboratory of Hygiene, carter.seehafer@slh.wisc.edu

Poster 12T

Stability of IgG and IgM Antibodies in Serum and Cerebral Spinal Fluid Under Different Laboratory Storage Conditions Across Multiple Serology Testing Platforms

L. Jones, K. Kulas, T. Lamson, K. Carson, K. Howard, J. Howard, and W. Lee, Division of Infectious Diseases, Wadsworth Center, New York State Department of Health

Presenter: Lindsey Jones, New York State Department of Health, Wadsworth Center, lindsey.jones@health.ny.gov

Poster 13T

Cost Comparison of Wet-mount and Nucleic Acid Amplification Testing for Detection of *Trichomonas vaginalis* in a Public Healthcare Setting

R. Cullum, and D. Lucic, Abbott

Presenter: Richard Cullum, Abbott, richard.cullum@abbott.com

Poster 14T

Evaluation of a Hantavirus IgG and IgM Bead-based Immunoassay

T. Shates, E. Marlowe, and S. Realegeno, Quest Diagnostics

Presenter: Tessa Shates, Quest Diagnostics, Tessa.M.Shates@questdiagnostics.com

Poster 15T

Improved Accessibility of the High Precision T-SPOT®.TB Test for Laboratories and Patients Through the Automation of Cell Isolation

T. Jackson-Soutter¹, S. Wang², A. Trollip³, R. Brignall¹, M. Sabalza⁴, M. Quinn¹, B. Restrepo^{5,6}, M. Dudek¹, ¹Revvity, Abingdon, United Kingdom, ²The Ohio State University, College of Medicine, Internal Medicine Department, Infectious Diseases Division, Columbus, Ohio, USA, ³Rapittrade ⁶¹⁵ (Pty) Ltd., Somerset West, Cape Town, South Africa, ⁴EUROIMMUN US, Revvity, Mountain Lakes, NJ, ⁵University of Texas Health Science Center at Houston, School of Public Health in Brownsville, Brownsville, Texas, USA, ⁶University of Texas Rio Grande Valley, South Texas Diabetes and Obesity Institute, School of Medicine, Edinburg, Texas, USA

Presenter: Jackie Weiss, EUROIMMUN US, jackie.weiss@euroimmun.us

Poster 16T

Rapid Identification of *Mycobacterium* spp. From MGIT Broth Cultures Using the Bruker Sirius MBT Mycobacteria Workflow

N. Zamora, E. Espino Mondragon, A. Reddick, C. Villagran, L. Traudt, and J. Valdez, San Bernardino County Public Health Laboratory

Presenter: Dr. Norma Zamora, San Bernardino County Public Health Laboratory, norma.zamora@dph.sbcounty.gov

Poster 17T

Enhancing Antimicrobial Resistance Surveillance Data Management in Public Health Laboratories in Zambia Using WHONET/BackLink and Laboratory Information Management System

M. Hamomba¹, K. Sichela¹, C. Phiri¹, M. Muvwimi², and I. Chiboma², ¹Association of Public Health Laboratories, ²Ministry of Health

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

Global Health (18T-22T)

Poster 18T

Mayaro Virus and Chikungunya Virus IgM and IgG testing in Parallel Improves Diagnosis of Acute Mayaro Virus Infections

J. Klemens, M. Sabalza, M. Janku, E. Lattwein, A. Schulz, and O. Klemens, Institute for Experimental Immunology, affiliated to EUROIMMUN Medizinische Labordiagnostika AG, EUROIMMUN US, Revvity, Mountain Lakes, NJ

Presenter: Jackie Weiss, EUROIMMUN US, jackie.weiss@euroimmun.us

Poster 19T

Genomic Epidemiology Training of the Trainers Model Offers Effective and Sustainable Approach to Capacity Building in Central & South America

J. Pringle¹, A. Lara¹, P. Oluniyi², J. Gil², P. Ayscue², ¹N. Hull, ¹S. Staley, and ¹L. Maryogo-Robinson, ¹Association of Public Health Laboratories, ²Chan Zuckerberg Biohub

Presenter: Julia Pringle, Association of Public Health Laboratories, julia.pringle@aphl.org

Poster 20T

Salud Mundial: A Case Study in Sequencing Sustainability in Central and South America Public Health Systems

A. Lara, J. Pringle, N. Hull, and L. Maryogo-Robinson, Association of Public Health Laboratories

Presenter: Adolfo Lara, Association of Public Health Laboratories, adolfo.lara@aphl.org

Poster 21T

Development and Application of GBAT: Global Bioinformatics Assessment Tool

J. Rowland, A. Lara, N. Hull, and L. Maryogo-Robinson, Association of Public Health Laboratories

Presenter: Adolfo Lara, Association of Public Health Laboratories, adolfo.lara@aphl.org

Poster 22T

Leveraging a Custom Multi-MinION Workstation to Enhance Genomic Surveillance in Resource-limited Settings

P. Hemarajata¹, W. Worakitchanon¹, R. Wick², R. Tacharoenmuang³, A. Poates¹, N. Hull¹, P. Sawatwong⁴, B. Skaggs⁴, S. Staley¹, and L. Maryogo-Robinson¹, ¹Association of Public Health Laboratories, ²Doherty Applied Microbial Genomics Laboratory, University of Melbourne, ³Department of Medical Sciences, Thailand Ministry of Public Health, ⁴Division of Global Health Protection, Centers for Disease Control and Prevention

Presenter: Peera Hemarajata, Association of Public Health Laboratories, peera.hemarajata@tha.aphl.org

Infectious Disease Outbreak and Surveillance (23T–48T)

Poster 23T

Validation of a Dual-target H5 Influenza Real-time RT-PCR Assay

M. Pyne¹, W. Hymas¹, M. Couturier², and B. Bradley², ¹ARUP Laboratories, ²Department of Pathology, University of Utah

Presenter: Michael Pyne, ARUP Laboratories, michael.pyne@aruplab.com

Poster 24T

Serratia marcescens Outbreak in an Indiana NICU

E. Hofmann, J. Yeadon, D. Schaeper, T. Gulley, C. Cox, H. Kraft, and L. Liu, Indiana Department of Health

Presenter: Jamie Yeadon, Indiana Department of Health Laboratory, jyeadon@health.in.gov

Poster 25T

Whole Genome Sequencing of Influenza A from Wastewater Using Nanotrap Microbiome A Particles and NEBNext iIMS Influenza A DNA Library Preparation

P. Acer¹, P. Anderson¹, G. Pricer¹, L. Saunders¹, K. Pinet², and A. Kadam², ¹Ceres Nanosciences Inc., ²New England Biolabs

Presenter: Patrick Acer, Ceres Nanosciences, pacer@ceresnano.com

Poster 26T

Outbreak of Legionnaires' Disease Associated with a Municipal Water Supply: Grand Rapids Minnesota

P. Snippes Vagnone, T. Robinson, E. Laine, and S. Jawahir, Minnesota Department of Health

Presenter: Jill Fischer, Minnesota Department of Health, jill.fischer@state.mn.us

Poster 27T

An End-to-end Sequencing Validation Approach for the Genomic Characterization of Bacterial Pathogens as Causative Agents of Healthcare-associated Infections

K. Morey-Castro¹, M. Clary¹, L. McLitus¹, V. Williams¹, C. Rizzo¹, M. Scribner², I. Mendes², and J. Otieno¹, ¹Oregon State Public Health Laboratory, ²Theiagen Genomics

Presenter: Karim Morey, Oregon State Public Health Laboratory, karim.e.morey@oha.oregon.gov

Poster 30T

Investigating the Use of BigBacter for *Candida auris* Genomic Surveillance

H. Halstead, P. Dykema, and J. Johnson, Washington State Department of Health,

Presenter: Holly Halstead, Washington State Department of Health - Public Health Laboratories, holly.halstead@doh.wa.gov

Poster 31T

Automated Bacterial DNA Extraction on the KingFisher Flex

R. Redline, Michigan Department of Health and Human Services

Presenter: Robin Redline, MDHHS, redliner@michigan.gov

Poster 32T

Assessment of Genetic Material Degradation of Stored Samples in Wastewater Surveillance Samples for Respiratory Virus Monitoring

H. Stauber, Rhode Island Department of Health Labs

Presenter: Hayley Stauber, Rhode Island Department of Health Labs, Hayley.Stauber.CTR@health.ri.gov

Poster 33T

A Decade of Collaboration: Impact of the Vaccine Preventable Diseases Reference Centers

A. Bochnowski, Association of Public Health Laboratories

Presenter: Alisa Bochnowski, APHL, alisa.bochnowski@aphl.org

Poster 34T

Genomic Surveillance of *Neisseria meningitidis* — Los Angeles County, CA

J. Garrigues¹, T. Burseson¹, T. Pham, K. Kuguru¹, V. Ngo¹, U. Halai¹, A. Nicholas¹, P. Hemarajata², and N. Green¹, ¹Los Angeles County Public Health, ²Association of Public Health Laboratories

Poster 35T

Locally-acquired Dengue Response — Los Angeles County, CA

N. Green, M. Brown, H. Berhanu, T. Burseson, A. Marutani, A. Nicholas, C. Park, V. Ngo, P. Danza, U. Halai, and S. Balter, Los Angeles County Public Health Laboratory

Presenter: Nicole Green, Los Angeles Public Health Laboratory, nicgreen@ph.lacounty.gov

Poster 36T

Hepatitis C NGS: Targeted Amplicon vs Hybrid Capture for Epidemiologic Surveillance

K. Wells, Michigan Department of Health and Human Services

Presenter: Kourtney Wells, Michigan Department of Health and Human Services, wellsk@michigan.gov

Poster 37T

MicrobeTrace 2.0 — Improved Functionality, Synergy, and Customized Training for Powerful Pathogen Agnostic Molecular Epidemiological Analyses

A. Shankar¹, E. Moscoso², D. Cowan¹, R. Kelly², R. Cintron¹, O. Al Naimi¹, W. Switzer¹,
¹Centers for Disease Control and Prevention, ²GDIT

Presenter: Anupama Shankar, Centers for Disease Control and Prevention, ikb6@cdc.gov

Poster 38T

Evaluating the Use of Whole Genome Sequencing to Investigate Outbreaks of Hepatitis A Virus, California

A. Espinosa, M. Haw, C. Kath, G. Cosentino, A. Quintana, S. Adams, R. Berumen, J. Bell, O. Arizmendi, and J. Hacker, California Department of Public Health

Presenter: Jill Hacker, California Department of Public Health, jill.hacker@cdph.ca.gov

Poster 39T

Culture-independent Diagnostic Testing (CIDT) — Impact on VA Public Health Laboratory (PHL) and Foodborne Outbreak Surveillance

K. Niedzielska-Hessler, L. Turner, E. Craig, and R. Mehr, Virginia Division of Consolidated Laboratory Services

Presenter: Katarzyna Niedzielska-Hessler, VA DGS/DCLS, katarzyna.niedzielska-hessler@dgs.virginia.gov

Poster 40T

Expanding Detection in Wastewater: A Long-term Application

S. Zekovich, P. Lang, and M. Robinson, Indiana Department of Health Laboratory

Presenter: Sarah Zekovich, Indiana Department of Health, szekovich@health.in.gov

Poster 41T

Five Years of Group A *Streptococcus* Surveillance Testing in a Public Health Laboratory: A Comprehensive Overview

E. Klingbeil, A. Kidney, A. Peifer, K. Wahl, E. Owuor, P. Boynton, E. Owens, J. Hayes, L. Tyler, K. Prussing, W. Haas, L. Randall, L. Leach, K. Musser, K. Mitchell, New York State Department of Health, Wadsworth Center

Presenter: Erin Klingbeil, New York State Department of Health, Wadsworth Center, erin.klingbeil@health.ny.gov

Poster 42T

Genomic Dynamics of Carbapenem-resistant *Acinetobacter* spp.: A Retrospective Study in Oregon

K. Morey-Castro¹, M. Clary¹, H. Hertzfel², E. Donahoe², E. Doughty³, M. Scribner³, I. Mendes³, and K. Libuit³, ¹Oregon State Public Health Laboratory, ²Acute and Communicable Disease Prevention — Oregon Health Authority, ³Theiagen Genomics

Presenter: Karim Morey, Oregon State Public Health Laboratory, karim.e.morey@oha.oregon.gov

Poster 43T

Feasibility of Wastewater Surveillance for Enteric Pathogen Detection: A Pilot Study in New York State

R. Robinson, J. Connors, A. Gray, K. Law, L. Mingle, and D. Wroblewski, New York State Department of Health, Wadsworth Center

Presenter: Reed Robinson, New York State Department of Health, Wadsworth Center, reed.robinson@health.ny.gov

Poster 44T

How Wastewater Surveillance is Flowing at the Texas Public Health Laboratory

B. Oh¹, A. Romero¹, M. Jost¹, S. Vayla¹, M. Pedrueza¹, J. Lu¹, R. Bovio¹, C. Hooks¹, Y. Sun¹, J. Labonté², L. Langan³, B. Brooks⁴, L. Lustri¹, V. Salinas¹, H. Bojes¹, and C. Schroeder¹, ¹Texas Department of State Health Services, ²Texas A&M at Galveston, ³University of South Carolina, ⁴Baylor University

Presenter: Bonnie Oh, Texas Department of State Health Services, Bonnie.Oh@dshs.texas.gov

Poster 46T

Molecular Detection of Rabies Using the LN34 Pan-Lyssavirus Real-Time RT-PCR Assay

B. Nguyen¹, M. Zhouandai¹, L. Dominguez¹, M. Kim¹, M. Crumpler², ¹Orange County Public Health Laboratory, ²Orange County Health Care Agency

Presenter: Bryan Nguyen, Orange County Public Health Laboratory, bryan.nguyen3630@gmail.com

Poster 47T

Evaluation of a Digital PCR-based Method to Detect *Legionella pneumophila*

N. Sherman, R. Harrell, M. Martin, R. Fowler, and K. Levinson, Tennessee Department of Health

Presenter: Nina Sherman, Tennessee Department of Health, nina.sherman@tn.gov

Poster 48T

How the New Hampshire PHL Revitalized Respiratory Virus Surveillance by Building on Existing Networks and Tools

J. Alexander¹, J. Dreisig², B. Parchment¹, K. Martinez¹, J. Cotnoir¹, J. Feinberg¹, J. Benson¹, and T. Lester¹, ¹New Hampshire Public Health Laboratory, ²New Hampshire Bureau of Infectious Disease Control

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

One Health (49T)

Poster 49T

Public Health Laboratory Fellowship Program: an APHL-CDC Initiative

K. Solis, Association of Public Health Laboratories

Presenter: Kristen Solis, Association of Public Health Laboratories, kristen.solis@aphl.org

Biosafety and Biosecurity (01W–02W)

Poster 01W

Strengthening Laboratory Biosecurity: A Comprehensive Exercise Toolkit for Laboratory Preparedness

M. Perry¹, and S. Chester^{2,1}New York State Department of Health — Wadsworth Center,
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Presenter: Stormy Chester, Association of Public Health Laboratories, stormy.chester@aphl.org

Poster 02W

Challenges Surrounding Specimen Submission For Rabies Testing

J. Osterman, M. Johnson, J. Stricklen, G. LaMore, C. Anglewicz, J. Wholehan, K. Margulieux, and D. Riner, Michigan Department of Health and Human Services Bureau of Laboratories

Presenter: Diana Riner, MDHHS Bureau of Laboratories, rinerd@michigan.gov

Emerging Technologies (03–014W)

Poster 03W

Surveilling the Underreported: Using Wastewater to Conduct Respiratory Virus Surveillance

C. Benton, State of New Hampshire Public Health Laboratories

Presenter: Christopher Benton, State of NH Public Health Laboratories, christopher.benton@dhhs.nh.gov

Poster 05W

Evaluation of the CDC Multiplex SARS-CoV-2 and Influenza Assay Using the Roche Diagnostics LightCycler PRO

S. McCune, Y. Zhao, D. Hernandez, R. Thomas, and T. Schwarz, Roche Diagnostics

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

Poster 06W

In the Jungle, Welcome to the Fungal — Hologic Panther's® Got What You Need

M. Ahmann, and J. Benfer, State Hygienic Laboratory at the University of Iowa

Presenter: Megan Ahmann, The State Hygienic Laboratory at the University of Iowa, megan-ahmann@uiowa.edu

Poster 07W

Time to Unbox a New Assay for Mpox

M. Ahmann, and J. Benfer, State Hygienic Laboratory at the University of Iowa

Presenter: Megan Ahmann, The State Hygienic Laboratory at the University of Iowa, megan-ahmann@uiowa.edu

Poster 08W

Enabling Molecular Testing In High Containment Labs Using Redbud NA1

P. Gilliam¹, S. Griesemer², D. Lamson², B. Bonificio², H. Gilmer¹, T. Gurney¹, S. Baldwin¹, J. Chami¹, B. Mason¹, K. St. George², J. Fisher¹, ¹Redbud Labs, ²Wadsworth Center

Presenter: Jenine Chami, Redbud Labs, Inc., chami@redbudlabs.com

Poster 09W

Validation of a Fully-automated Whole Genome Sequencing Solution for *Neisseria gonorrhoeae* Characterization by the San Francisco Public Health Laboratory

L. Castro¹, E. Wong¹, J. Ng², E. Smith³, K. Kropp³, B. Todadi³, R. Khaksar², and G. Masinde¹, ¹San Francisco Public Health Laboratory, ²Clear Labs, ³TheiaGen Genomics,

Presenter: Lina Castro, San Francisco Public Health Laboratory, lina.castro@sfdph.org

Poster 10W

Assessing the Usability of simpli-COLLECT STI Home Collection Kits

K. Nelson, R. Cullum, and D. Lucic, Abbott

Presenter: Richard Cullum, Abbott, richard.cullum@abbott.com

Poster 11W

Streamlining Pathogen Genomic Surveillance with Cloud Infrastructure

D. Polanco, L. Bankers, S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Daniel Polanco, Colorado Department of Public Health and Environment, daniel.polanco@state.co.us

Poster 12W

The Potential of Microbial Cell-free DNA Metagenomic Sequencing to Uncover Public Health Gaps

S. Park, S. Venkatasubrahmanyam, E. Chang, and F. Nolte, Karius, Inc.

Presenter: Sarah Park, Karius, Inc., sarah.park@kariusdx.com

Poster 13W

PCR-free Library Prep Workflow for the MagicPrep NGS Instrument

A. Gopalan, T. Sandell, and A. Saraiya, Tecan Genomics

Presenter: Tom Sandell, Tecan Genomics, tom.sandell@tecan.com

Poster 14W

Innovation and Opportunity: Utilizing Smart Glasses Technology for Whole Genome Sequencing in the Public Health Laboratory

A. Poates¹, H. Carleton², E. Ribot², X. Wang², and J. Putney³, ¹Association of Public Health Laboratories, ²Centers for Disease Control and Prevention, ³Oak Ridge Institute for Science and Education (ORISE)

Presenter: Angela Poates, Association of Public Health Laboratories, angela.poates@aphl.org

Infectious Disease Outbreaks and Surveillance (15W–46W)

Poster 15W

Lyticase Enzymatic Digestion and Maxwell 48 for High-quality *C. auris* Nucleic Acid Extraction Prior to NGS

C. LaFleur, A. Mooney, A. Gehrke-Laundrie, A. Bateman, and C. Jossart, Wisconsin State Laboratory of Hygiene

Poster 16W

Evaluation of Four Chromogenic Media for *Salmonella* Isolation in a Whole Genome Sequencing Workflow

L. Li, California Department of Public Health

Presenter: Linlin Li, California Department of Public Health, linlin.li@cdph.ca.gov

Poster 17W

Vaccine Preventable Diseases Bacteriology Reference Centers: A Decade of Success

A. Strain¹, A. Valley², P. Snippes Vagnone¹, A. Bochnowski³, and A. Bateman², ¹Minnesota Department of Health, ²Wisconsin State Laboratory of Hygiene, ³Association of Public Health Laboratories

Presenter: Anna Strain, Minnesota Department of Health, anna.strain@state.mn.us

Poster 18W

The *Legionella* Reference Center Beginnings

C. Cass, V. Reeb, M. Nelson, R. Jepson, and M. Pentella, State Hygienic Laboratory at the University of Iowa

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

Poster 19W

Mpox Surveillance Using Rectal Swabs for Unsuspected Case Detection

J. Meier¹, J. Xiang¹, M. Li¹, W. Hottel², V. Reeb², S. Cross³, R. Chapman³, J. Benfer², K. Eveland², M. Wiley³, J. Stapleton¹, and M. Pentella², ¹University of Iowa, ²State Hygienic Laboratory, ³University of Nebraska Medical Center

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

Poster 21W

Data Metrics Evaluation for Monitoring Influenza and Respiratory Syncytial Virus Outbreaks Using Two Years of Wastewater-based Surveillance

A. Roguet¹, R. Fahney¹, D. Everett¹, A. Bateman¹, S. Buechner¹, E. Hanson¹, M. Rasmussen², M. Schussman³, J. Hemming¹, S. McLellan³, D. Antkiewicz¹, M. Shafer¹, ¹Wisconsin State Laboratory of Hygiene, ²Wisconsin Department of Health Services, ³University of Wisconsin Milwaukee

Presenter: Adelaide Roguet, Wisconsin State Laboratory of Hygiene, adelaide.roguet@slh.wisc.edu

Poster 22W

A Sample-to-results Workflow for Respiratory Syncytial Virus Whole Genome Sequencing

K. Pinet¹, A. Kadam¹, P. Acer², P. Anderson², M. Angel¹, V. Ponnaluri¹, B. Langhorst¹, L. Saunders², E. Cantor¹, and K. Krishnan¹, ¹New England Biolabs, ²Ceres Nanosciences Inc.

Presenter: Kaylinnette Pinet, New England Biolabs, kpinet@neb.com

Poster 23W

Novel *Mycobacterium* Capture and Detection from Sputum Samples Using Nanotrap Microbiome B Particles

P. Acer, P. Anderson, G. Pricer, K. Vengurlekar, and S. Mosavi, Ceres Nanosciences Inc.

Presenter: Patrick Acer, Ceres Nanosciences, pacer@ceresnano.com

Poster 24W

Oxford Nanopore Sequencing of Vector Borne Diseases in San Diego County

N. Rhoades¹, J. Tsecouras¹, S. Hallis¹, J. Corrigan¹, S. Vo², R. Flores², S. Grewal², and N. Gurfield², ¹San Diego County - Public Health Lab, ²San Diego County - Department of Environmental Health and Quality

Presenter: Nicholas Rhoades, County of San Diego Public Health Lab, nicholassamuel.rhoades@sdcounty.ca.gov

Poster 25W

Presence of Carbapenemase Producing *Acinetobacter baumannii* with Dual Mechanisms in Indiana

E. Hofmann, J. Yeadon, E. Maley, D. Schaeper, I. Liu, T. Gulley, C. Cox, H. Kraft, Indiana Department of Health

Presenter: Elizabeth Hofmann, IDOHL, elhofmann@health.in.gov

Poster 27W

Comparison of Available H1 HA Subtyping Assays in Wastewater Samples by dPCR

G. Lequia, J. Romero, N. Pysnack, A. Rossheim, and S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Gabrielle Lequia, Colorado Dept of Public Health and Environment, gabrielle.lequia@state.co.us

Poster 28W

Comparison of Different Concentration and Extraction Methods for Tiled Amplicon Sequencing of RSV from Wastewater

A. Alford, J. Romero, D. Polanco, A. Mahale, M. Hetherington-Rauth, A. Rossheim, and S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Alexis Alford, Colorado Department of Public Health and Environment, lexi.alford@state.co.us

Poster 29W

Study of Matrix Effect on Tiled Amplicon Sequencing of Influenza A Virus HA Gene Segments in Wastewater

V. Nguyen, M. Hetherington-Rauth, A. Rossheim, and S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Van Nguyen, Colorado Department of Public Health and Environment, van.nguyen@state.co.us

Poster 30W

Enhancing Antimicrobial Resistance Testing in California

N. Mohanty, A. Murshed, R. Azurin, and Z. Berrada, Microbial Diseases Laboratory Branch, Centers for Laboratory Sciences, California Department of Public Health

Presenter: Namrata Mohanty, California Department of Public Health - Microbial Diseases Laboratory Branch, namrata.mohanty@cdph.ca.gov

Poster 31W

Doing More with Less: Optimizing Wastewater Surveillance at a Local Public Health Laboratory

Z. Zawada, J. Zimmer, L. Beversdorf, and D. Payne, Milwaukee Health Department Lab

Presenter: Zachary Zawada, Milwaukee Health Department, zzawad@milwaukee.gov

Poster 32W

Optimizing Wastewater Extraction: Comparative Analysis of 10mL and 35mL Ceres Nanotrap Protocols with the MagMAX Wastewater Ultra Nucleic Acid Isolation Kit

J. Romero, G. Lequia, N. Pysnack, A. Rossheim, and S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Jennae Romero, Colorado Department of Public Health and Environment, jennae.romero@state.co.us

Poster 33W

Wastewater Epidemiology in Rhode Island: Monitoring SARS-CoV-2

J. Zablon, Rhode Island Department of Health

Presenter: Jeremiah Zablon, Rhode Island Department of Health, jeremiah.zablon.ctr@health.ri.gov

Poster 34W

Enhancing Public Health: Wastewater Surveillance Applications in Wisconsin

E. Camarato¹, R. Wied¹, D. Everett¹, P. Mullen¹, E. Doolittle¹, G. Knuth¹, L. Simonson¹, O. Long¹, S. Shrestha¹, A. McCunn¹, D. Antkiewicz¹, A. Roguet¹, S. Joneson¹, N. Kloczko², M. Rasmussen², M. Schussman³, S. McLellan³, J. Hemming¹, and M. Shafer¹, ¹Wisconsin State Laboratory of Hygiene, ²Wisconsin Department of Health Services, ³University of Wisconsin Milwaukee

Presenter: Erica Camarato, Wisconsin State Laboratory of Hygiene, erica.camarato@slh.wisc.edu

Poster 36W

Moving towards Standardization of Wastewater Monitoring: A Review of Wastewater Proficiency Testing for SARS-CoV-2, Influenza and Respiratory Syncytial Virus

D. Antkiewicz¹, A. Roguet¹, E. Camarato¹, R. Fahney¹, R. Wied¹, O. Long¹, S. Shrestha¹, L. Simonson¹, J. Hemming¹, M. Shafer², ¹Wisconsin State Laboratory of Hygiene, ²University of Wisconsin Madison

Presenter: Dagmara Antkiewicz, University of Wisconsin Madison, Wisconsin State Lab of Hygiene, dksieprawska@wisc.edu

Poster 37W

A Flexible Bioinformatics Workflow for the Assembly and Analysis of Highly Pathogenic Avian Influenza (HPAI) from Wastewater Samples and Comparison of Tiled Amplicon Sequencing Approaches

A. Smith, I. Paul, S. Baird, M. Hetherington-Rauth, V. Nguyen, A. Wellbrock, J. Romero, A. Rossheim, L. Bankers, and S. Matzinger, Colorado Department of Public Health and Environment

Presenter: Arianna Smith, APHL, arianna.smith@state.co.us

Poster 38W

From Detection to Protection: The Impact of Identifying *Candida auris* Colonization

S. Elliott, V. Alfieri, V. Tettamanzi, L. Rubino, B. Bernier, J. Farhang, S. Brahmasandra, and G. Minnucci, Diasorin

Presenter: Sarah Elliott, Diasorin, sarah.elliott@diasorin.com

Poster 39W

Culture-enriched Metagenomics to Analyze Within-patient Diversity and Transmission Dynamics in Patients with Vancomycin-resistant *Enterococcus Faecium* Infections

E. Mills, K. Evans, M. Stellfox, K. Squires, R. Shields, and D. Van Tyne, University of Pittsburgh

Presenter: Emma Mills, University of Pittsburgh, emm370@pitt.edu

Poster 40W

A Sustainable, Robust, and Highly Sensitive Solution for RNA Pathogen Detection Using eQo 1-Step ToughMix

S. Panja, R. Heller, B. Komorous, K. Bobofchak, and D. Schuster, Quantabio

Presenter: Subrata Panja, Quantabio, Subrata.Panja@quantabio.com

Poster 41W

Occurrence of Norovirus and Other Viral Gastroenteritis Pathogens in Sporadic Medically Attended Acute Gastroenteritis Kaiser Permanente Northwest Members, 2023–2024.

L. Tsaknaridis¹, H. Groom², A. Ojebode¹, L. Morrow¹, R. Evans¹, V. Makris¹, J. Donald², S. Vertrees², and M. Schmidt³, ¹Oregon State Public Health Laboratory, ²Kaiser Permanente Center for Health Research, ³Kaiser Permanente Bernard J. Tyson School of Medicine

Presenter: Laura Tsaknaridis, Oregon State Public Health Lab, Laura.j.tsaknaridis@oha.oregon.gov

Poster 42W

Establishing Capacity for Wastewater-based Epidemiology — A Pilot Surveillance for SARS-CoV-2 in Addis Ababa, Ethiopia

Y. M. Eshete¹, D. A. Dinsa², G. Gebremicael², N. Hull¹, D. C. Chalchisa², G. Berhanu², A. Gebreegziabxier², A. Norberg¹, S. Wright¹, S. Snyder¹, M. Tessema², and G. Tollera²,

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Presenter: Yohannes Mengistu Eshete, Association of Public Health Laboratory, Ethiopia, yohannes.eshete@eth.aphl.org

Poster 43W

Multilingual Terra Asynchronous Training for Genomic Characterization and Genomic Epidemiology of SARS-CoV-2

A. Norberg¹, E. Doughty², K. Libuit², N. Hull¹, and L. Maryogo-Robinson¹, ¹Association of Public Health Laboratories, ²Theiagen Genomics

Presenter: Ashley Norberg, Association of Public Health Laboratories, ashley.norberg@aphl.org

Poster 44W

Establishing Capacity for Wastewater — Based Surveillance for Sars-Cov-2 In Lusaka Province Zambia: Balancing Expectations And Multiple Stakeholders' Involvement For Pandemic Preparedness

L. Sicalwe¹, C. Phiri¹, and C. Mulenga², ¹Association of Public Health Laboratories, ²Zambia National Public Health Institute

Presenter: Lugard Sicalwe, Association of Public Health Laboratories, lugard.sicalwe@zmb.aphl.org

Poster 45W

Enhancing Influenza and Respiratory Infection Data Management in Kenya: Real-time Integration of Laboratory Information System and Surveillance System

R. Nyaga¹, N. Akenga¹, E. Ochieng¹, R. Kakkar¹, and M. Mwangi², ¹Association of Public Health Laboratories, ²National Public Health Laboratories

Presenter: Rufus Nyaga, Association of Public Health Laboratories, rufus.nyaga@ken.aphl.org

Poster 46W

A Sustainable Solution for Tracking NGS Workflows

S. Preston, K. Cox, K. George, R. Zinner, M. Johnson, and V. Arora, Kentucky Division of Laboratory Services

Presenter: Sarah Preston, KY Division of Laboratory Services, sarah.preston@ky.gov

Laboratory Operations and Regulatory Affairs (47W–50W)

Poster 47W

Wastewater Analysis for SARS-CoV-2: Determining the Limit of Detection for Sequencing in Surveillance and Management

I. Uzomah and E. Vaughn, DC DFS Public Health Lab

Presenter: Eric Vaughn, Department of Forensic Sciences - Public Health Laboratory, eric.vaughn@dc.gov

Poster 48W

The Elephant and the Mouse Story of Laboratories

T. Theisen¹ and M. Soehnlen¹, ¹Saginaw County Health Department, ¹Michigan Department of Health and Human Services Bureau of Laboratories

Presenter: Tammy Theisen, Saginaw County Health Department, ttheisen@saginawcounty.com

Poster 50W

Development of Targeted and Metagenomic NGS in Silico Reference Materials for Infectious Diseases: A CDC/APHL NGS Quality Initiative Pilot Project

D. Arambula¹, M. Gregory², S. Scott², B. Cherney¹, and H. Stang¹, ¹Centers for Disease Control and Prevention, ²Booz Allen Hamilton

Presenter: Diego Arambula, Centers for Disease Control and Prevention, OU04@cdc.gov



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