

May 6–9, 2024

Milwaukee, WI

APHL[®] 2024

where laboratory science and public health meet



#APHL

Final Program



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AGENDA AT A GLANCE

	Monday, May 6				Tuesday, May 7		
6:30 am							Registration Open
7:00 am							
7:30 am				Registration Open			
8:00 am	Preconference Workshops <i>separate registration fee</i>				Innovate! Sessions		
8:30 am					Break		
9:00 am					Public Health & Regulatory Science		
9:30 am					Break		
10:00 am							
10:30 am					Dr. Peter Hotez: The Deadly Rise of Anti-Science		
11:00 am							
11:30 am							
12:00 pm	Lunch <i>on your own</i>	Lab Directors Lunch <i>invite only</i>	Registration Open		Lunch provided in the Exhibit Hall		
12:30 pm							
1:00 pm					Concurrent Sessions		
1:30 pm	Welcome to Milwaukee				Rapid Poster Presentations		
2:00 pm	AI-powered Public Health				Break		
2:30 pm					Concurrent Sessions		
3:00 pm	Rapid Poster Presentations				Break		
3:30 pm	Break				Concurrent Sessions		
4:00 pm	Concurrent Sessions				Concurrent Sessions		
4:30 pm					Networking Reception		
5:00 pm	Welcome Reception						
5:30 pm							
6:00 pm							

	Wednesday, May 8		Thursday, May 9	
7:00 am				
7:30 am	Roundtable Sessions		Roundtable Sessions	
8:00 am				
8:30 am	Break		Break	
9:00 am			Showdown: Tuberculosis vs. <i>Candida auris</i>	
9:30 am	Awards Ceremony and Breakfast			
10:00 am			Break	
10:30 am	Break		The Climate Crisis	
11:00 am	Concurrent Sessions			
11:30 am			APHL 2024 Adjourns	
12:00 pm				
12:30 pm	Lunch provided in the Exhibit Hall			
1:00 pm				
1:30 pm	Wastewater Surveillance for Public Health			
2:00 pm				
2:30 pm	Break / Exhibit Hall Raffle			
3:00 pm				
3:30 pm	Concurrent Sessions			
4:00 pm				
4:30 pm	Break			
5:00 pm				
5:30 pm	Member Assembly			
6:00 pm				

Exhibit Hall and Posters
Registration Open

Registration Open

Optional Tours

Wisconsin State Public Health & Environmental Health Laboratories

- or -

Madison Nine Springs Wastewater Treatment Facility

- or -

City of Milwaukee Public Health Laboratory

BAIRD CENTER FLOOR PLANS

Street Level (1st Floor)

Rooms 101, 102, 103C

- Concurrent sessions
- Roundtables
- Innovate! sessions
- Preconference workshops
- Fellows sessions (101ABC)

Grand Ballroom D and Pre-function

Awards Ceremony and Breakfast

Grand Ballroom ABC

- Plenary sessions
- Concurrent sessions
- Member Assembly

Grand Ballroom ABC Pre-function

Conference registration

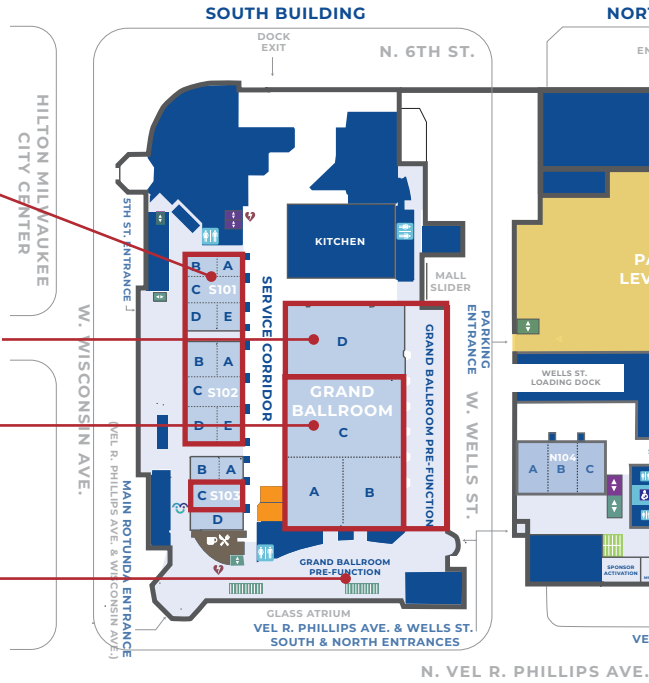
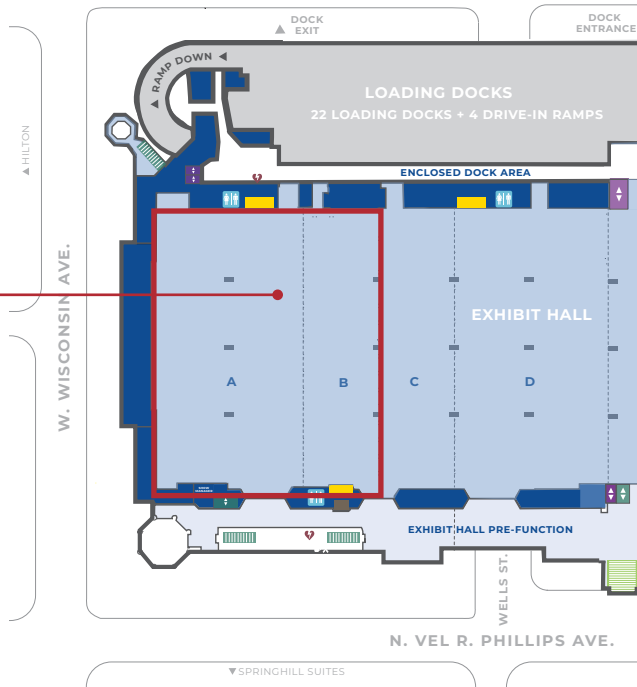


Exhibit Level (3rd Floor)

Exhibits Hall AB

- Exhibit booths
- Poster presentations
- Box lunches, breaks, receptions
- Headshot Studio
- APHL Bark Park



WELCOME!

Welcome to the 2024 Annual Conference of the Association of Public Health Laboratories — *Where Laboratory Science and Public Health Meet* — in beautiful downtown Milwaukee!

Wisconsin is well-known for both cheese and “What Made Milwaukee Famous” – beer – so take time to enjoy some of the local breweries and eateries. Wisconsin was also the home of Dr. Elizabeth McCoy, a pioneering microbiologist at the University of Wisconsin most revered for her discoveries in antibiotics and industrial fermentation.

The planning committee reviewed and selected proposals submitted by our members and attendees to curate a program that covers a wide array of public health laboratory-related topics aiming to engage all members. The Opening Plenary Session, entitled “AI-Powered Public Health: How Labs Can Prepare for the Road Ahead,” addresses the emerging topic of artificial intelligence and its potential for shaping the future of public health laboratories. We are very excited for the inaugural year of the Regulatory Science Track, which opens on Tuesday with the foundational plenary session entitled “How Public Health Actions are Fueled by Regulatory Science.”

It is an honor to welcome Dr. Peter J. Hotez, a Nobel Peace Prize-nominated physician and scientist, as the Dr. Katherine Kelley Distinguished Lecturer. He will present on the timely topic of “The Deadly Rise of Anti-Science,” also the title of his most recent book. Following the lecture, the first 300 people in line will have the opportunity to meet Dr. Hotez and get a signed copy to take home. On Thursday take the opportunity to tour one of three laboratories — Wisconsin State Public Health & Environmental Health Laboratories, Madison Nine Springs Wastewater or the City of Milwaukee Public Health Laboratory.

Embrace your inner extrovert and take time each day to network with your colleagues in the Exhibit Hall and learn about new technologies and products from more than 90 exhibitors and corporate partners. In the Poster Hall you will find more than 270 poster presenters, including over 70 fellows presenting their research projects. We will again offer 12 Innovate Sessions featuring educational presentations by our industry partners with live Q&A providing a unique opportunity to engage with them. We will also have our exhibitor raffle offering great prizes, so be sure to visit them all!

On behalf of the Program Planning Committee and the APHL Board of Directors, we welcome you to Milwaukee. We hope that you have an engaging week and that you explore the great sessions and interactive experiences that the annual conference has to offer.

Megan Crumpler, PhD, HCLD(ABB)

APHL 2024 Planning Committee Chair and APHL President-Elect

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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Joey Stringer, Dallas County Public Health Laboratory

Gordon Vrdoljak, MS, PhD, California Department of Public Health

GENERAL INFORMATION

Registration Desk Hours

Grand Ballroom ABC Pre-function

Sunday, May 5	3:00 pm – 6:00 pm
Monday, May 6	7:30 am – 5:30 pm
Tuesday, May 7	6:30 am – 6:00 pm
Wednesday, May 8	7:00 am – 5:30 pm
Thursday, May 9	7:00 am – 12:00 pm

Health and Safety

Your health and safety are important to us. While masks are optional to attend this meeting, we encourage all individuals who prefer to wear them to do so, and we fully respect that personal decision.

Complimentary Wireless Internet

There is complimentary wireless internet in the public areas of the convention center.

Network: **LABSBEST**
Password: **APHL2024**

Download the Mobile App

Search for and download the APHL Conferences App in your app store. Within the app, select the APHL 2024 conference. You'll be prompted to log in; the **username** is the email address you registered with, and the **password** is your unique access key that was emailed prior to the conference.



The app is also quite handy and will enhance your experience!

- Conveniently access and search details on sessions, posters, exhibitors and more.
- Navigate the conference center 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.

Meeting Location and Headquarters Hotel

Conference sessions and events:
Baird Center

Headquarters hotel:
Hilton Milwaukee City Center

Secondary hotels:
Hyatt Regency Milwaukee
Drury Plaza Hotel Milwaukee Downtown

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, and electronic reproductions of such events and activities.

Continuing Education Credits

APHL is an approved provider of continuing education programs in the clinical laboratory sciences through the American Society for Clinical Laboratory Science (ASCLS) P.A.C.E.® program. Attendees have the opportunity to earn up to 14 contact hours by attending all available sessions. APHL is an approved provider of Certified in Public Health (CPH) Recertification Credits through the National Board of Public Health Examiners (NBPHE). Attendees have the opportunity to earn up to 14 contact hours by attending all available sessions. All sessions will be presented in person only.

Wisconsin and Milwaukee Lab Tours

Three tours have been arranged for May 9 — Wisconsin State Public Health & Environmental Health Laboratories OR the Madison Nine Springs Wastewater Treatment Facility, both in Madison (1.5 hours away), OR the City of Milwaukee Public Health Laboratory. The bus to Madison will leave the convention center/hotel at 12:30 pm and return by 5:00 pm. The Milwaukee city lab tour will also leave at 12:30 pm and return by 2:30 pm. **You must have pre-registered for these tours. They are now all filled.**

Tribal Land Acknowledgement

We acknowledge in Milwaukee that we are on traditional Potawatomi, Ho-Chunk and Menominee homeland along the southwest shores of Michigami, North America’s largest system of freshwater lakes, where the Milwaukee, Menominee and Kinnickinnic rivers meet and the people of Wisconsin’s sovereign Anishinaabe, Ho-Chunk, Menominee, Oneida and Mohican nations remain present. We gratefully acknowledge the Native Peoples on whose ancestral homelands we gather, as well as the diverse and vibrant Native communities who make their home here today.

Public Health Laboratory Fellows in Attendance

We are excited to welcome 100+ Public Health Laboratory Fellows to APHL 2024. These early career scientists, currently placed within public health laboratories across the country, will participate in person in Milwaukee. These first-time attendees will attend sessions dedicated to the Public Health Laboratory Fellowship Program and will also join other attendees and exhibitors in participating in Annual Conference activities.

NEW Regulatory Science Track!

The Regulatory Science Track is new at APHL 2024, bringing specific content relevant to scientists and their partners who improve public health and safety by generating defensible data that informs regulatory decision-making.

These sessions are designated with the RS symbol in the following agenda.



Thank You to Our Generous Sponsors!



Welcome Reception
Mobile App



Awards Breakfast



Tote Bags
General Conference Support



HQ Hotel Key Card



Charging Stations

Free Professional Headshots for APHL 2024 Attendees!

NEW!

Stop by our Headshot Studio in Exhibit Hall AB and get a free headshot! Our professional photographer will help you put your best look forward for building your network, establishing credibility and advancing your career.

The photo booth will be open Monday and Tuesday during exhibit hall hours. No appointment is necessary.

Exhibit Hall Raffle — Visit with Exhibitors, Win Prizes!

Follow the instructions on your exhibit raffle card, found in your conference tote bag. Turn in the completed card at the registration desk **no later** than 2:30 pm on Wednesday, May 8. Join us at the live raffle drawing in the exhibit hall, starting at 3:00 pm on Wednesday. *You must be present to win.* Prizes for the raffle include:

- Two \$500 airline flight credits on Delta Airlines to anywhere in the continental US
- Complimentary registration to APHL 2025 in Portland, OR
- \$150 Amazon.com gift card (compliments of RUVOS LLC)
- Pipetboy acu 2 (compliments of INTEGRA Biosciences)
- \$100 Amazon.com gift card (compliments of InBios International, Inc.)
- “Control of Communicable Diseases Manual” bundle (compliments of American Public Health Association)
- \$150 gift card (compliments of HOK)
- \$150 Amazon.com gift card (compliments of American Proficiency Institute)
- ABSA Webinar of your choice (compliments of ABSA International)
- \$250 Amazon.com gift card (compliments of iConnect Consulting)
- \$150 gift card (compliments of Retractable Technologies, Inc.)
- Cukoo rice cooker or small appliance of your choice (compliments of HDR)
- InductiveHealth gift basket (compliments of InductiveHealth)
- \$150 Amazon gift cards (compliments of STAT Courier Service)
- One \$500 airline flight credit on Delta Airlines to anywhere in the continental US
- PacBio branded Rains duffle bag, filled with a Revio/Onso building block set (compliments of PacBio)
- Mystery basket of Colorado/NJH swag (compliments of National Jewish Health)
- \$100 Amazon.com gift card and MRIGlobal swag (compliments of MRIGlobal)
- \$150 in L.L. Bean gift cards (compliments of Puritan Medical Products)
- AirPods Max (compliments of Primary.Health)
- A2LA blanket, wine and \$100 Visa card (compliments of A2LA)
- Lego Set of Vincent van Gogh’s *The Starry Night* (compliments of OpenELIS Foundation)
- Ember Mug 2 (compliments of Bruker)
- One \$750 airline flight credit on Delta Airlines (compliments of APHL)

APHL staff and exhibitors are not eligible. Legal notice: Winners are responsible for any taxes that may be due on their prizes. Please consult your tax advisor for details.

Visit Us at the APHL Experience Booth 114!

Discover new resources, share your stories and grab takeaways

► Public Health Laboratory Professionals: Share Your Stories and Feedback!

Visit the storytelling booth to share your experiences and public health career journey! All fellows, interns, mentors and other public health laboratory professionals are invited to share your stories. In addition to helping shape the future of APHL programs, your stories could be featured on APHL's social media and other storytelling channels. Whether for an Instagram reel or in a confidential conversation, share your story and feedback to inspire others to consider a public health laboratory career.



► APHL Tools and Program Demonstrations

Monday, May 6

3:00–4:00 pm (afternoon break)

Come CIFOR Yourself! Foodborne Outbreak Investigation Learning Modules (FS)

The Two Es of People & Culture: Engagement and Education (HR)

5:00–6:30 pm (welcome reception)

NGS Quality Initiative: Pathway to Quality Testing (AMD)

ArboShare: A Specimen Sharing Database (ID)



Tuesday May 7

10:00–11:00 am (morning break)

Electronic Test Orders and Results (ETOR) for Public Health Laboratories (INF)

12:00–1:30 pm (lunch)

Making a Difference Through Global Health Consulting — What's It All About? (GH)

5:30–6:30 pm (reception)

Laboratory System Improvement Program (L-SIP) (QSA)

Wednesday May 8

10:00–11:00 am (morning break)

Experience APHL's Emerging Leader Program (ELP)

12:00–1:30 pm (lunch)

Member Spotlight: Share Your Laboratory's Success Stories (INF)

APHL's Environmental Health Program (EH)

► **APHL giveaways** — grab some swag or some of our publications and guides!



HEALTH AND WELLNESS

It's going to be a busy week! But don't worry, we've got some self-care strategies to help you find fun ways to be active, be mindful and be healthy on your own or with colleagues at APHL 2024.

Sunrise Walk

Join friends on **Tuesday, May 7, at 6:00 am** for an easy 1-mile walk (round trip) to Milwaukee's RiverWalk District, where you can take a selfie and say "ayyy" with the Bronz Fonzi! *Weather permitting.* Meet in the lobby of the Hilton Milwaukee City Center (509 W Wisconsin Ave, Milwaukee, WI 53203).



Morning Yoga

Start your day with energy and focus! Join Collective Flow Milwaukee in a morning yoga session on **Wednesday, May 8, at 6:00 am**. Meet in the Grand Ballroom BC lobby near the registration desk. *A limited number of yoga mats will be provided.*

APHL Bark Park

Take a quick puppy break to enjoy a fun playful experience and recharge! Hang out with some furry friends and feel "pawsome" for the rest of the day!

Visit JR's Pups-N-Stuff Dog Rescue in the exhibit hall

Tuesday, May 7, 10:00 am – 3:00 pm and Wednesday, May 8, 10:00 am – 2:00 pm in the Exhibit Hall, to the left of the entrance at the 100 aisle.

Gratitude Wall

Take a moment to reflect on the good things and great people all around you. Write and share messages, stories and thank-you's, or recognize your peers and colleagues on the gratitude wall. Letters will also be available for you to personalize and give to others. The gratitude wall will be available near the registration desk throughout the conference.

Games and Activities

Invite friends to unwind with putt putt golf and cornhole. Discover your inner artist while reducing anxiety and stress with coloring books and pencils provided to session attendees. Check out the fun near the APHL Experience booth in the Exhibit Hall and near the registration desk.

HIGHLIGHTS

Dr. Katherine Kelley Distinguished Lecture: The Deadly Rise of Anti-Science

Tuesday, May 7, 10:30–11:30 am CDT

Dr. Peter Hotez, MD, PhD, DSc (hon), FASTMH, FAAP

A Nobel Peace Prize-nominated physician and scientist, Dr. Hotez is one of the most trusted voices on the pandemic and who also became one of the main targets of anti-science rhetoric that gained traction through conservative news media. Dr. Hotez will share his story of how the anti-vaccine movement grew into a dangerous and prominent anti-science element in American politics and will describe the devastating impacts it has had on Americans' health and lives. As a scientist who has endured antagonism from anti-vaxxers and been at the forefront of both essential scientific discovery and advocacy, he explains how anti-science became a major societal and lethal force.



APHL Annual Awards Ceremony and Breakfast

Wednesday, May 8, 9:00–10:30 am CDT

The awards program highlights outstanding achievements in laboratory science, creative approaches to today's public health challenges and exemplary support of laboratories serving the public's health. Applaud your colleagues, cheer innovation and support the advancement of public health laboratory science and practice!

Exhibit and Poster Hall

Monday, May 6, 3:00 pm – 6:30 pm CDT

Tuesday, May 7, 10:00 am – 6:30 pm CDT

Wednesday, May 8, 10:00 am – 3:30 pm CDT

Network with industry peers and experts! We have a diverse exhibit hall ready to bring you the latest in technology and equipment solutions. Visit with exhibitors to chat and learn of their products and services. Meet with poster presenters to learn the latest science, trends and practices. Enjoy connecting with attendees at breaks and receptions.

Innovate! Sessions

Tuesday, May 7, 7:00–8:30 am CDT

Connect with your industry partners and get the inside track on new technologies and services during 30-minute educational presentations designed for the public health laboratory community. See pages 24–27 for details on these presentations.

Session Topics

APHL solicits session proposals from its standing committees and the general membership, which results in many excellent proposals. To assist you in determining the general area of interest, we have given each session a letter symbol that corresponds with the topic that it represents. This guide is listed below.

AVE	Agricultural, veterinary and environmental testing technologies and practices
BIOM	Biomonitoring and chemical threats
BIOS	Biosafety and biosecurity
COM	Communications, advocacy and public relations
COV	COVID-19 and other infectious diseases (STI/STD)
DAT	Data and analytics
DDT	Diagnostics and new detection technologies
FSS	Food safety and security
INF	Informatics
MJH	Marijuana, hemp, opioids and other controlled substances
NGS	Next generation/long-read sequencing, metagenomics and bioinformatics
NBS	Newborn screening and genetics
OHA	One Health! approaches
PAN	Pandemic preparedness and emergency response
PAR	Partnerships, academic and research collaborations, training and outreach
QLM	Quality laboratory management systems
SEI	Socio-economic issues
SLS	Strengthening laboratory systems and strategic planning
SUR	Surveillance, outbreaks and emerging infections
WSU	Wastewater surveillance
WDT	Workforce development and retention

Competencies

The Centers for Disease Control and Prevention (CDC) and the Association of Public Health Laboratories (APHL) published **Competency Guidelines for Public Health Laboratory Professionals** in a May 2015 Morbidity and Mortality Weekly Report (MMWR) supplement issue. These competency guidelines were developed with a focus on public health laboratory practice and are intended to form the foundation of competency-based approaches to strengthen that practice, including integration into workforce development initiatives such as training and education programs.

In support of efforts to further the adoption and implementation of guidelines, each session in the APHL 2024 Annual Conference program will include one or more symbols corresponding to the related competency domain(s) that the session addresses. This guide is listed below.

QMS	Quality Management Systems	GEN	General Laboratory Practices
ETH	Ethics	SHC	Safety: Hazard Control
MLD	Management and Leadership	SRV	Surveillance
COM	Communication	INF	Informatics
SEC	Security	MCB	Microbiology
EMR	Emergency Management and Response	CHM	Chemistry
WFT	Workforce Training	BIO	Bioinformatics
		RES	Research

9:00 am – 5:00 pm

Preconference Workshops ▼

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

(Part 1) **QLM** **SLS** **MLD** **QMS**

Room 102AB

588-846-24 • 9.5 contact hours for this session

Moderator: Maria Landron, DrPH, Association of Public Health Laboratories

Speakers:

- Warren J. Hendrickson, AIA LEED AP, BD+C, Public Health Director, HDR, Inc.
- Michael Mottet, LEED AP, Principal Laboratory Planner, HDR, Inc.
- Victor Waddell, PhD, Laboratory Director, Arizona State Public Health Laboratory

This interactive workshop will help participants improve biosafety and biosecurity, including Biosafety Level 3 (BSL-3), through efficient facility design, maintenance and risk assessment practices. Attendees will participate in interactive sessions to illustrate best practices concepts found in the Laboratory Facility Construction and Major Renovation Guidelines. Discussions and hands-on interaction will cover parts 1–10 of the Guidelines. Participants are required to bring their own laptop in order to optimize participation during interactive sessions; internet will be available in the workshop room. A more detailed agenda will be provided to participants. Registration is for both days of the workshop.

Note: This is a part one of a 1.5-day preconference workshop with a separate registration and fee of \$449. The entire workshop must be attended to receive P.A.C.E.® credits. There is a limit of 40 attendees.

Making a Difference: A Workshop for Prospective APHL Global Health Consultants

Room 101DE

588-847-24 • 6.5 contact hours for this session

Moderators: Jocelyn Isadore and Jennifer Sedillo, Association of Public Health Laboratories

Speakers:

- Lucy Maryogo-Robinson, MPH, Global Health Director, Association of Public Health Laboratories
- Sherrie Staley, MPH, Global Health Deputy Director, Association of Public Health Laboratories
- Frances Pouch Downes, DrPH, Professor Emeritus, Michigan State University
- Paul Kimsey, PhD, Director, California State Public Health Laboratory (retired)
- David Mills, PhD, Director, New Mexico Scientific Laboratory Division (retired)
- Burton W. Wilcke, PhD, Associate Professor Emeritus, University of Vermont

Are you interested in supporting public health laboratories across the globe? This interactive workshop provides an overview of the APHL Global Health (GH) Program and GH consultancy opportunities. We'll describe APHL's expectations for consultants working internationally and review consultants' roles and responsibilities. You'll hear stories from the field and participate

in exercises on cultural sensitivity, diplomacy and travel safety. Discover how consulting can make a difference, not only for the country but for you and your laboratory. Note: workshop attendance does not guarantee immediate consulting opportunities but includes you in a pool of consultants to be engaged as needed and not all consulting opportunities involve travel.

NOTE: This is a full-day preconference workshop with a separate registration. It is complimentary but there is a limit of 40 attendees.

3:00 pm – 6:00 pm Registration
 Grand Ballroom ABC
 Pre-function

Monday, May 6, 2024

7:30 am – 5:30 pm Registration
 Grand Ballroom ABC Pre-function

8:00 am – 11:30 am Preconference Workshops ▼

Laboratory Design Matters: Improving Biosafety and Biosecurity Through Efficient Facility Design, Maintenance and Risk Assessment Practices

(Part 2) QLM SLS MLD QMS

Room 102AB

Note: This is a part two of a 1.5-day preconference workshop with a separate registration and fee of \$449. The entire workshop must be attended to receive P.A.C.E.® credits. There is a limit of 40 attendees.

Nonverbal Essentials for Success: Helpful Strategies for Scientific and Technical Communicators COM SLS WDT COM MLD WFT

Room 101DE

588-850-24 • 3.0 contact hours for this session

Moderator: Adam Perkins, Missouri Public Health Laboratory

Speakers:

- Jessica McCall, PhD, University of North Carolina, Greensboro
- Jenni Simon, PhD, University of North Carolina, Greensboro

This workshop will remind participants of the importance of using and understanding professional nonverbal communication in the public safety realm. Participants will learn through mini-lecture presentations combined with experiential learning. This learning will include discussions, scenarios and other activities to promote the application of concepts and help participants set concrete goals for future interactions.

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

Communication Essentials: An Experiential Workshop on Messaging to Meet Your Laboratory's Needs

COM SLS WDT COM MLD WFT

Room 102DE

588-848-24 • 3.0 contact hours for this session

Speakers:

- Gynene Sullivan, MA, Manager, Communications, Association of Public Health Laboratories
- Michelle Forman, Manager, Media, Association of Public Health Laboratories
- Amanda Cosser, MPH, Manager, Regulatory and Public Policy, Association of Public Health Laboratories

The ability to effectively communicate a message that leaves a lasting impact is an important skill for laboratorians. They need to be able to share their message and gain buy-in for their vision, whether that's for onboarding a new assay, implementing information technology changes, or securing state funding for programmatic or infrastructure updates. This workshop will teach attendees how to craft messaging that creates an emotional response, which is the most impactful type of communication, as well as how to develop a core message and navigate successfully delivering it when the information receiver may have their own agenda. Attendees will learn through presentations and exercises.

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

Strategies and Model Practices for Hiring and Retaining the Best PHL

Workforce Talent COM SLS WDT MLD QMS WFT

Room 102C

588-849-24 • 3.0 contact hours for this session

Speakers:

- Carrie Anglewicz, MS, Biosafety Officer, Michigan Department of Health and Human Services, Bureau of Laboratories
- Kelsey Bailey, HR Business Partner, Wisconsin State Laboratory of Hygiene
- Christine Bean, PhD, MBA, MLS(ASCP), Chief Learning Officer, Association of Public Health Laboratories
- Erin Bowles, BS, MLS(ASCP), Clinical Laboratory Network Outreach Coordinator, Wisconsin State Laboratory of Hygiene
- Leah D. Gillis, MS, PhD, HCLD(ABB), Adjunct Professor, University of South Florida, College of Public Health
- Nancy McLean, MILR, Human Resources, Wisconsin State Laboratory of Hygiene
- Kathleen Street, MS, PMP, Manager, Leadership Programs, Association of Public Health Laboratories
- Teresa M. Wolfe, PhD, MLS (ASCP), Subject Matter Expert, Pookela Solutions

Hiring and maintaining top talent is a challenge facing public health laboratories. From creating the job post to ensuring the candidate adds to the laboratory's vision, this workshop will provide tips and tools for drafting position descriptions, interviewing techniques, and selecting qualified applicants. Model practices for employee retention will be covered. Tools for providing a positive employee onboarding experience will be discussed, as well as ideas for retention in this competitive job market. Activities include reviewing example job postings, developing interview questions with role-play practice, sharing of onboarding tools, and an introduction to the value of periodic stay-interviews

Note: This is a half-day preconference workshop with a separate registration and fee of \$149. There is a limit of 40 attendees.

- 11:30 am – 1:30 pm** **Lunch** *(on your own)*
- 11:30 am – 1:00 pm** **Laboratory Directors Lunch** *(by invitation only)*
- 1:30 pm – 2:00 pm** **Welcome to Milwaukee**
Grand Ballroom ABC

- Speakers:**
- Tim Southern, PhD, APHL President and Director, South Dakota Public Health Laboratory
 - Megan Crumpler, PhD, HCLD(ABB), APHL President-Elect, APHL 2024 Planning Committee Chair and Director, Orange County (CA) Public Health Laboratory
 - James J. Schauer, PhD, PE, MBA, Director, Wisconsin State Laboratory of Hygiene
 - Sheryl Bedno, MD, DrPH, CIP, Chief Medical Officer and State Epidemiologist, Wisconsin Bureau of Environmental and Occupational Health
 - David Payne, PhD, Director, City of Milwaukee Public Health Laboratory
 - Scott Becker, MS, APHL Chief Executive Officer

- 2:00 pm – 3:00 pm** **Opening Plenary Session**
Grand Ballroom ABC

AI-Powered Public Health: How Labs Can Prepare for the Road Ahead

DAT **QLM** **SLS** **INF** **MLD** **GEN**

- 588-800-24 • 1.0 contact hour for this session
- Moderator:** Kelsey Florek, PhD, MPH, Wisconsin State Laboratory of Hygiene
- Speakers:**
- Duncan MacCannell, PhD, MBT, Centers for Disease Control and Prevention
 - Jorge Calzada, MBA, Centers for Disease Control and Prevention
 - Allen Bateman, PhD, MPH, D(ABMM), Wisconsin State Laboratory of Hygiene
 - Jade Wang, MS, New York City Department of Health and Mental Hygiene

Artificial Intelligence (AI) has been advancing rapidly, and Generative AI, in particular, holds immense potential for public health laboratories. This session will delve into how AI technologies, including machine learning, natural language processing and generative models, are shaping the future of public health.

- 3:00 pm – 3:30 pm** **Rapid Poster Presentations ▶**
Grand Ballroom ABC
Detailed listing on next pages.
- 3:00 pm – 6:30 pm** **Exhibit Hall Open**
Exhibit Halls AB
- 3:30 pm – 4:00 pm** **Break**
Exhibit Halls AB

Rapid Poster Presentations | APHL/CDC Fellows

Monday, May 6, 3:00–3:30 pm

Moderator: Robert Nickla, RBP, M(ASCP), Association of Public Health Laboratories

- P-37 Optimization of Specimen Submission for Patients with Known Tuberculosis in the State of Georgia**
Blake Bertrand, Centers for Disease Control and Prevention, uqn7@cdc.gov
- P-39 The Use of Wastewater Surveillance for the Detection and Monitoring of SARS-CoV-2 Variants**
Rakin Choudhury, Centers for Disease Control and Prevention, uec4@cdc.gov
- P-46 Past, Present and Future of Public Health Laboratory Information Systems**
Alyssa Harvey, Centers for Disease Control and Prevention, thy8@cdc.gov
- P-50 Establishing Surge Capacity Infrastructure for Whole Genome Sequencing During Healthcare-associated Infection Outbreaks**
Frances Knight, Centers for Disease Control and Prevention, uqo5@cdc.gov
- P-57 Evaluating Bioinformatics Approaches for Fungal Pathogen Detection with Targeted Metagenomics**
Zachary Mudge, Centers for Disease Control and Prevention, xnv5@cdc.gov
- P-67 Effects of Culture Independent Diagnostic Testing on Enteric Disease Surveillance — Wisconsin, 2018–2023**
Annie Sanchez, Centers for Disease Control and Prevention, uqp0@cdc.gov
- P-68 Use of Training and Functional Drills to Improve Response to Medical Emergencies in the Laboratory**
Sabrina Schatzman, Centers for Disease Control and Prevention, qan6@cdc.gov
- P-77 Evaluating the Suitability of the Seegene Novaplex PCR System for Respiratory Pathogen Surveillance in Minnesota**
Emily Yarosz, Centers for Disease Control and Prevention, emily.yarosz.contractor@state.mn.us
- P-81 Using Wastewater Surveillance for Mpox as a Complement to Traditional Case-based Reporting — Chicago, March–June 2023**
Dorothy Foulkes, Chicago Department of Public Health, dorothe.foulkes@cityofchicago.org
- P-93 PFAS Detection in Frozen Water**
John Fennessey, Colorado Department of Public Health and Environment, john.fennessey@state.co.us
- P-121 Validation of a Heat-inactivation Protocol for *Mycobacterium tuberculosis* Identification by MALDI-TOF Mass Spectrometry**
Lauren Franco, Indiana University School of Medicine, laurencfranco@gmail.com
- P-128 Detecting Nosocomial Spread of *Candida auris* by Strain-typing with Whole Genome Sequencing**
Shannon Murphy, Johns Hopkins Medicine, shannon.murphy.microbe@gmail.com
- P-133 Forever Chemicals in Drinking Water: Two Fellows' Perspective on Testing for Per- and Polyfluoroalkyl Substances in a Public Health Laboratory**
Nicholas Brinza, Maryland Department of Health — Laboratories Administration, nbrinza004@gmail.com

Monday, May 6

- P-145 A Tale of Two Pathotypes: Increasing Surveillance for Enteroaggregative and Enterotoxigenic *Escherichia coli* in Minnesota**
Emily Verbrugge, Minnesota Department of Health,
Emily.Verbrugge.Contractor@state.mn.us
- P-149 Canine Tickborne Diseases in Montana — A Serology Study Using Indirect Fluorescence Antibody (IFA) Assays**
Geneka Glover, Montana Veterinary Diagnostic Laboratory, glover.geneka@yahoo.com
- P-164 Updates On the Implementation of New Jersey's First Statewide Biomonitoring Population Study: NJHANES**
Esohe Irabor, New Jersey Public Health Environmental Laboratories,
esohe.irabor@doh.nj.gov
- P-171 Validation of a Combined Analytical Method Testing for Toxic Metals in Urine: Improving Laboratory Efficiency and Implications for Biomonitoring Use**
Aurora Mills, New Jersey Public Health Environmental Laboratories,
aurora.mills@doh.nj.gov
- P-173 The Method Development of a Qualitative Analysis for the Testing of Drugs of Abuse by UHPLC-MS/MS in Human Urine**
Nkemdili Nebeolisa, New Jersey Public Health Environmental Laboratories,
nkemdili.nebeolisa@doh.nj.gov
- P-177 Optimization of Fish Homogenization Procedures for EPA Method 1633 to Measure Per- and Polyfluoroalkyl Substance (PFAS) in Fish**
Shenelle Shaw, New Jersey Public Health Environmental Laboratories,
shenelle.shaw@doh.nj.gov
- P-206 Emerging Insights on Postbiotics for the Prevention of Infectious Diseases**
Hedayat Hosseini, San Mateo Public Health Laboratory, hedayat.s.hosseini@gmail.com
- P-211 In the Jungle, Welcome to the Fungal — Hologic Panther's® Got What You Need**
Megan Ahmann, State Hygienic Lab at the University of Iowa, megan-ahmann@uiowa.edu
- P-231 Wastewater-based Disease Forecasting for Respiratory Viruses: Advances and a Glimpse into the Future**
Amna Elbadawi, University of Texas Health Science Center at Tyler- PHLET,
amnaelbadawi18@gmail.com
- P-233 Tick Talk: Establishment of Surveillance Capacity for Ticks and Tick-borne Diseases in Utah**
Kaona Ayres, Utah Public Health Laboratory, knayres2@gmail.com
- P-255 Validation of a Molecular Workflow to Identify the Diphtheria Exotoxin Gene in *Corynebacterium* Species**
Andy Chia, Washington State Department of Health, andy.chia@doh.wa.gov
- P-269 Implementation of NG-Test CARBA5 and CHROMagar-mSuperCARBA to Streamline Isolate Testing and Colonization Screening of Carbapenemase-Producing Organisms at Wisconsin State Laboratory**
Saba Shama, Wisconsin State Laboratory of Hygiene, Saba.Shama@slh.wisc.edu
- P-272 Analysis of Total Lead in Retail Juice Samples**
Indiana Department of Health Laboratories
John Chisholm, Indiana Department of Health Laboratory, jjchisholm@yhc.edu

4:00 pm – 5:00 pm **Concurrent Sessions ▼**

Next Generation Sequencing Solutions for Healthcare-associated Infections and Antimicrobial Resistance

DAT **DDT** **NGS** **SUR** **GEN** **INF** **MCB**

Grand Ballroom ABC

588-801-24 • 1.0 contact hour for this session

Moderators:

- Kara Moser, PhD, MPH, Centers for Disease Control and Prevention
- Logan Fink, PhD, Virginia Department of General Services

Identifying and Updating Novel AMR Gene Variants

Logan Fink, PhD, Virginia Department of General Services

Automated Bacterial Genomic Surveillance with BigBacter

Jared Johnson, PhD, MSc, Washington State Department of Health

Long-read Sequencing for HAI Investigations: Challenges in Interpretation and Communication of Results with Epidemiologists

Catharine Prussing, PhD, MHS, Wadsworth Center, New York State Department of Health

This session aims to communicate how NGS technologies are being utilized in public health labs to address HAI/AR threats and highlight cutting-edge approaches for analysis and integration of NGS data for public health action.

Hunting for a Needle in a Stack of Needles — Non-targeted Analysis Across Public Health Laboratories

DAT **DDT** **NGS** **SUR** **GEN** **INF** **MCB**

Room 102AB

588-802-24 • 1.0 contact hour for this session

Moderator: Shane Wyatt, Virginia Division of Consolidated Laboratory Services

Threading the Needle: Leveraging High Resolution Mass Spectrometry for Chemical Threat Emergency Response

Cullen Cunningham, BS

Other Speakers:

- Sean Wang, DVM, PhD, Minnesota Department of Health
- Michael Perry, MS, MEd, Wadsworth Center, New York State Department of Health

This session will compare different forms of non-targeted testing across public health laboratories, including high-resolution mass spectrometry (HRMS) in environmental and clinical testing and Next Generation Sequencing (NGS) in infectious diseases, including a project looking at threat-agnostic sequencing in preparedness and response. Individual approaches to how data from each of these different non-targeted testing technologies is handled, analyzed, managed and used will be discussed, as well as how the data generated from non-targeted testing methods is or can be validated and shared across laboratories or networks.

Monday, May 6

Get the Lead Out! Public Health, Laboratory and Medical Initiatives to Identify and Reduce Pediatric Lead Exposure

DDT NBS CHM GEN

Room 102C

588-803-24 • 1.0 contact hour for this session

Moderator: Julianne Nassif, MS, Association of Public Health Laboratories

Childrens' Blood Lead Levels: How Low Should (Can) We Go?

Mary Jean Brown, BSN, ScD, Harvard Chan School of Public Health

The CDC Blood Lead Reference Value (BLRV) Lowered to 3.5 µg/dL: Implications for Laboratories

Patrick J. Parsons, PhD, Wadsworth Center, New York State Department of Health

3.5µg/dL — Toxicologically Meaningful? A Pediatrician's Perspective

Morri Markowitz, MD, Montefiore Medical Center/Einstein College of Medicine

Get the Lead Out! will provide insights into the current landscape of pediatric lead testing, public health initiatives to reduce exposures, laboratory challenges and state of the science for clinical case management.

When It Absolutely, Positively Has to Meet Specifications: The North Carolina Model for Pre-Analytical Systems Compliance

DAT DDT PAR QLM GEN INF QMS

Room 102DE

588-804-24 • 1.0 contact hour for this session

Moderator: Scott Shone, PhD, HCLD(ABB), North Carolina State Laboratory of Public Health

Speakers:

- Shonetta Smith, PhD, NRCC(TC), North Carolina State Laboratory of Public Health
- Susan Orton, PhD, D(ABMLI), North Carolina State Laboratory of Public Health
- William Glover, PhD, D(ABMM), MLS(ASCP), North Carolina State Laboratory of Public Health

During this session, three subject matter experts will present a model program for pre-analytical system performance. The presentations will discuss the North Carolina State Laboratory of Public Health's response to a regulatory audit that revealed opportunities for quality improvements that necessitated the establishment of a system to ensure clinical specimen quality from collection to receipt in the laboratory; that met regulatory requirements. Topics reviewed by the speakers will include: 1) collection of critical data elements, use of Electronic Test Orders and Results (ETOR), monitoring time and temperature for specimen transport, and developing standard operating procedures and training materials; 2) educational and outreach activities, communication with specimen submitters, and development of infographics; and 3) Continuous Quality Improvements (CQI) efforts to assure regulatory compliance.

Preventing the Next Infant Formula Crisis: Public Health Actions to Control

Cronobacter DDT FSS SUR INF MCB RS

Room 103C

588-805-24 • 1.0 contact hour for this session

Moderator: Nandhu Balakrishnan, MS, PhD, Georgia Public Health Laboratory

Speakers:

- Christine Lee, PhD, Centers for Disease Control and Prevention
- Cathy Lord, State Hygienic Laboratory at the University of Iowa
- Wendy McMahon, MS, US Food and Drug Administration

Attendees will learn about the implications of the Council of State and Territorial Epidemiologists' (CSTE) position statement on invasive *Cronobacter* species in infants, APHL and CSTE efforts to support diagnosis, characterization, investigation, reporting and control of infant *Cronobacter*, and aspects of FDA's *Cronobacter* Prevention Strategy that will enhance the safety of powdered infant formula, including remedies to supply chain shortages that arise when vulnerable populations lose a key source of their nutrition.

5:00 pm – 6:30 pm

Exhibit Halls AB

Welcome Reception

Sponsored by Roche Diagnostics

5:30 pm – 6:00 pm

Exhibit Halls AB

Poster Session 1

Authors of posters 1–138 available to discuss posters.

Tuesday, May 7, 2024

6:30 am – 6:00 pm

Grand Ballroom ABC

Pre-function

Registration

6:30 am – 8:00 am

Room 102 Pre-function

Break

7:00 am – 7:30 am

Innovate! Sessions (details on pages 24–27 ►)

Bio-Rad Laboratories | Cepheid | Clear Labs
Oxford Nanopore Technologies | Promega
Waters Corporation

8:00 am – 8:30 am

Innovate! Sessions (details on pages 24–27 ►)

Abbott Molecular | Hologic | Illumina | QIAGEN
Roche Diagnostics Corporation | Thermo Fisher Scientific

8:30 am – 9:00 am

Grand Ballroom ABC

Break

Innovate! Sessions

Concurrent Sessions

Tuesday, May 7, 7:00–7:30 am

Wastewater Surveillance: Advancing Beyond SARS-CoV-2 with ddPCR at Hampton Roads Sanitation

presented by Bio-Rad Laboratories • Room 101AB

Embracing Droplet Digital PCR (ddPCR), our wastewater utility has pioneered methods for microbial source tracking to complex environmental monitoring applications. Initially applied to the identification of fecal markers in stormwater, we've expanded to pathogen detection in oysters, verification of treatment efficacy, and COVID-19 surveillance. Recently, our capability extended to high-order multiplexing for animal fecal identification and eDNA, aiding in the management of invasive and endangered species, demonstrating ddPCR's robustness in environmental and public health domains.

Speaker: Raul Gonzalez, PhD, Co-founder and Principal Scientist at H2O Molecular

Decentralized Molecular Diagnostics to Address Public Health Needs

presented by Cepheid • Room 101C

In this session, we will demonstrate the role of laboratory quality decentralized testing in addressing public health needs. Use cases and successful examples will be highlighted.

Speakers:

- Joaquin Aracena, MA, Assistant Commissioner, Bureau of Public Health Clinics (BPHC), New York City Department of Health and Mental Hygiene

Automation and Whole Genome Sequencing: The Public Health of Tomorrow

presented by Clear Labs • Room 101DE

With an expanded repertoire of applications offered by the Clear Dx platform, Clear Labs continues to empower public health laboratories, healthcare establishments and private hospitals to conduct routine pathogen surveillance, as well as outbreak investigations in a decentralized model. Subject matter experts in the field will be sharing their experience of utilizing automated NGS technologies for surveillance and outbreak investigations, as well as discussing the impact and implications of their work.

Moderator: Ramin Khaksar, Clear Labs

Speakers:

- Samantha Wirth, Wadsworth Center, New York State Department of Health
- Kyle Rhoden, Clear Labs

Nanopore Sequencing for Enhanced Microbial Genomics and AMR Surveillance

presented by Oxford Nanopore Technologies • Room 102AB

This session will provide an overview of practical applications of nanopore sequencing for enhanced microbial genomics and antimicrobial resistance (AMR) surveillance. Learn how Oxford Nanopore technology facilitates complete, high-quality microbial genome and plasmid assemblies, enabling characterization of AMR genes, precise mapping of their locations, outbreak detection, and tracking of horizontal gene transfer events. Gain insights into how nanopore sequencing accelerates turnaround times and enhances our understanding of microbial pathogens to support public health initiatives.

Speaker: Kelly Oakeson, PhD, Utah Public Health Laboratory

Standardization and Flexibility: A New Paradigm in Public Health Testing

presented by Promega • Room 102C

1. Embrace flexibility and standardization: Streamline your esoteric LDT workflow with our unique and versatile nucleic acid extraction kit, catering to various pathogens and complex matrices.
2. S3: Optimize your workflow with our Size-efficient, Scalable extraction solutions, backed by a reliable, local Supply chain and in-house production.
3. Enhanced Molecular Workflow: Boost public health PCR monitoring initiatives with added cell viability checks, improving food safety, water quality, and infectious disease diagnostics.

Speaker: Malik M. Keshwani, Promega

Beyond Drinking Water: Utilizing EPA Method 1633 for Assessing Water Supplies for PFAS

presented by Waters Corporation • Rooms 102DE

The widespread use of Per- and Polyfluorinated Alkyl Substances, PFAS, has resulted in deposition into the environment, impacting water and food supplies. Laboratories supporting PFAS testing must be ready to adjust to the changing landscape of testing requirements - expanded analytes, low level detection, more matrices. Join us to learn about innovations for successful sample preparation and LC-MS/MS analysis using EPA Method 1633, and it's use for assessing non-potable water sources for PFAS.

Speaker: Stuart Oehrle, PhD, Principal Technical Specialist, Waters Corporation and Chemistry Instructor, Northern Kentucky University

Innovate! Sessions

Concurrent Sessions

Tuesday, May 7, 8:00–8:30 am

Investigating the Performance of the Alinity m You-Create Feature

presented by Abbott Molecular • Room 101AB

Lab developed tests (LDTs) play an important role in the diagnosis of infectious diseases in response to an outbreak or when a regulatory approved test is not available. Current molecular diagnostic platforms offer fully automated high-throughput performance capable of running LDTs. The Alinity m platform enables users to run LDTs concurrently with IVD assays with its Alinity m You-Create feature. During the session we will review You-Create features and implementation of LDTs such as *C. auris*.

Speaker: Mark Sasaki PhD, Manager Global Scientific Affairs, Abbott Molecular

Optimizing Diagnostic Efficiency of HCV Testing in the Laboratory

presented by Hologic • Room 101C

Hepatitis C virus (HCV) infection remains a substantial global health problem and continues to be an underdiagnosed disease in the US. Achieving HCV elimination goals will require improving the effectiveness of HCV diagnosis. This session will highlight key strategies to optimize the diagnostic efficiency of HCV testing in the laboratory.

Speakers:

- Karen Harrington, PhD HCLD (ABB), Head of Scientific Affairs, Hologic
- Casey Schroeder, Texas Department of State Health Services Public Health Laboratory
- Stephanie Sweets, Indiana Department of Health Laboratory

Advancing Public Health Through Applications with Illumina NGS

presented by Illumina • Room 101DE

Speaker: Alexandria Rossheim, Colorado Department of Public Health and Environment

Flushing the Threat: Tracking Antimicrobial Resistance in Hawaiian Communities Through Wastewater-based Epidemiology

presented by QIAGEN • Room 102AB

Antimicrobial Resistance (AMR) is a global threat, with antibiotic-resistant bacteria (ARB) on the rise. Carbapenem resistance is particularly concerning, leading to serious outbreaks and limited treatment options. The Hawaii Department of Health (HDOH) employs wastewater-based epidemiology (WBE) to monitor AMR in two Hawaiian communities. Using digital PCR and targeted sequencing HDOH studies resistance gene prevalence, informing public health initiatives. Explore the talk for insights into WBE AMR testing and its implications.

Speakers:

- Joshua Boston, QIAGEN, LLC
- Doris Di, Hawaii Department of Health

Expanding Sensitivity and Precision with Roche qPCR

presented by Roche Diagnostics • Room 102C

Learn about Roche's new dual-mode (RUO & IVD) real-time PCR system, the LightCycler PRO. This innovative, 7-channel instrument is designed to offer industry-leading multiplexing capabilities plus the high precision, scalability, usability, and analytic capabilities found in Roche qPCR instruments. Ask questions and explore data generated on the LightCycler PRO with CDC suggested primers and probes.

Speaker: Robin Thomas, PhD, Scientific Partner, MSA

Exploring Analytical Toxicology Capabilities Utilizing LC-MS for Overdose Surveillance

presented by Thermo Fisher Scientific • Room 102DE

The growing number of abused drugs, coupled to the rise in non-lethal overdoses, requires rapid and sensitive toxicology testing to aid bio-surveillance efforts.

Fast, high-throughput mass spectrometry methods (with and without liquid chromatography) will be discussed — including a fast, quantitative method for 106 high-frequency drugs on Orbitrap™ MS and QQQ MS, as well as a novel PaperSpray ion source that limits the need for sample preparations and LC separation prior to mass spectrometry.

Speaker: Jingshu Guo, PhD, Application Scientist, Thermo Fisher Scientific

9:00 am – 10:00 am Plenary Session

How Public Health Actions Are Fueled by Regulatory Science

FSS OHA SUR EMR MLD SRV RS

Grand Ballroom ABC

588-806-24 • 1.0 contact hour for this session

Moderator: Scott Becker, MS, Chief Executive Officer, Association of Public Health Laboratories

Speakers:

- Denise Toney, PhD, Laboratory Director, Virginia Division of Consolidated Laboratory Services
- Greg Carroll, MBA, Director, Technical Support Center, Office of Ground Water and Drinking Water, US Environmental Protection Agency
- Donald Prater, DVM, Acting Director, Center for Food Safety and Applied Nutrition, US Food and Drug Administration

This fireside chat is an opportunity to gain insights into the indispensable functions of laboratories in the areas of environmental protection, water quality and food testing. Attendees will explore the pivotal role of regulatory science in safeguarding public health and promoting compliance with essential regulations and hear from a consolidated state laboratory that produces data serving both regulatory and non-regulatory purposes.

10:00 am – 10:30 am Break

Exhibit Halls AB

10:00 am – 6:30 pm Exhibit Hall Open

Exhibit Halls AB

10:30 am – 11:30 am Dr. Katherine Kelley Distinguished Lecture

Grand Ballroom ABC

The Deadly Rise of Anti-Science COM DAT SLS COM MLD

588-807-24 • 1.0 contact hour for this session

Moderator: Megan Crumpler, PhD, HCLD(ABB), APHL President-Elect and Orange County (CA) Public Health Laboratory

Speaker: Peter Hotez, MD, PhD, DSc (hon), FASTMH, FAAP

Co-Director, Texas Children's Hospital Center for Vaccine Development and Dean, National School of Tropical Medicine, Baylor College of Medicine

Dr. Peter J. Hotez, a Nobel Peace Prize-nominated physician and scientist, is one of the most trusted voices on the pandemic and who also became one of the main targets of anti-science rhetoric that gained traction through conservative news media. Dr. Hotez will share his story of how the anti-vaccine movement grew into a dangerous and prominent anti-science element in American politics and will describe the devastating impacts it has had on Americans' health and lives. As a scientist who has endured antagonism from anti-vaxxers and been at the forefront of both essential scientific discovery and advocacy, he explains how anti-science became a major societal and lethal force.

11:30 am – 12:00 pm Book Signing

Grand Ballroom ABC

Dr. Hotez and “The Deadly Rise of Anti-Science”
Complimentary copies provided while supplies last.

11:30 am – 1:00 pm Lunch *(in the exhibit hall)*

Exhibit Halls AB

12:00 pm – 12:30 pm Poster Session 2

Exhibit Halls AB

Authors of posters 139–273 available to discuss posters.

1:00 pm – 2:00 pm Concurrent Sessions ▼

Using the Past to Prevent Future Laboratory-acquired Infections

COM | DAT | SLS | EMR | QMS

Grand Ballroom ABC

588-808-24 • 1.0 contact hour for this session

Moderator: Shoolah Escott, MS, MT(ASCP), ABSA International

Speakers:

- Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa
- Michael Perry, MS, MS Ed, Wadsworth Center, New York State Department of Health
- Erin Bowles, BS, MT(ASCP), University of Wisconsin-Madison

This breakout session will demonstrate how to use real-life scenarios from the American Biological Safety Association International (ABSA) Laboratory-Acquired Infections (LAIs) Database as a learning and training tool to help prevent LAIs, exposures, and biosafety incidents to both known and emerging pathogens. Participants will be shown how to use the Association of Public Health Laboratories' (APHL) “Exposure Assessment and Symptom Monitoring Guide”. Presenters will also discuss the importance of performing a root cause analysis after a laboratory incident, or near miss, to help revise the risk assessment, identify biosafety plan gaps, and determine additional mitigation measures to reduce risk and improve laboratory biosafety.

Wastewater Surveillance at Long-term Care Facilities: Perspectives on Feasibility and Antimicrobial-resistant Target Detection

DDT | SUR | WSU | EMR | MCB | SRV

Room 102AB

588-809-24 • 1.0 contact hour for this session

Moderator: Florence Whitehill, DVM, MPH, Centers for Disease Control and Prevention

Speakers:

- Angela Coulliette-Salmond, PhD, Centers for Disease Control and Prevention
- Jennifer Weidhaas, PhD, PE, University of Utah
- Michael Lin, MD MPH, Rush University Medical Center

Perspectives from US wastewater surveillance efforts at long-term care facilities (LTCFs) regarding feasibility and antimicrobial-resistant (AR) target detection will be shared. An open

forum will be encouraged to ask questions, obtain feedback and discuss topics associated with the potential expansion of wastewater surveillance at LTCFs with conference attendees.

Mercury? It's not ELEMENTary at All, My Dear AVE FSS SUR CHM SRV

Room 102C

588-810-24 • 1.0 contact hour for this session

Moderator: Kristin Dortch, MS, Centers for Disease Control and Prevention

New Jersey's Efforts to Address the Mercury Public Health Gaps

Eric Bind, MPP, New Jersey Department of Health

Skin Lightening, Urine Mercury Testing and Health Impacts in Minnesota

Jessica Nelson, PhD, MPH, Minnesota Department of Health

Field Experience and Environmental Reflections in Inorganic Mercury Exposure Cases

Lori Copan, MPH, PharmD, California Department of Public Health

It's time we all pay more attention to mercury. Mercury is a harmful legacy contaminant that is commonly found in fish, seafood and consumer products. This session describes the health risks associated with mercury exposure, the surprisingly high prevalence of mercury around the country, what efforts are being done by state departments of health to address exposures, the current gaps in responses and why the field of public health cannot afford to ignore these issues any longer.

Implementing and Sustaining Parasitic Disease Testing AVE OHA SUR MCB SRV

Room 102DE

588-811-24 • 1.0 contact hour for this session

Moderator: Brian Raphael, PhD, Centers for Disease Control and Prevention

Diagnostic Parasitology Support and Resources at CDC

Katie Bowden, PhD, Centers for Disease Control and Prevention

Domestic Parasite Surveillance: New Tools, New Parasites and How You Can Participate

Joel Barratt, PhD, Centers for Disease Control and Prevention

Serology of Parasitic Diseases at the New York State Department of Health

William Lee, PhD, Wadsworth Center, New York State Department of Health

This session will provide information on resources needed to conduct parasitic disease testing for both clinical diagnosis and surveillance activities. The session will also cover overcoming potential challenges associated with implementing parasitic disease testing.

Charting the Future: Leveraging National Competency Standards in a Cutting-edge Regulatory and Laboratory Training System FSS PAR SLS EMR MLD RS

Room 103C

588-812-24 • 1.0 contact hour for this session

Moderator: Christopher Weiss, International Food Protection Training Institute

Integrated Food Safety System (IFSS) Regulatory and Laboratory Training Systems (RLTS)
Alan Tart, US Food and Drug Administration

Laboratory National Competency Standard
Robyn Randolph, Association of Public Health Laboratories

Practical Applications of the Laboratory National Competency Standard
Shane Wyatt, Virginia Division of Consolidated Laboratory Services

FDA's five-year strategic plan focuses on the development of a National Regulatory and Laboratory Training System (RLTS) that supports the goals of an integrated food safety system (IFSS). Grounded on a set of validated competencies housed in a National Competency Standard (NCS), the RLTS will revolutionize human and animal food regulatory training conducted by FDA and IFSS partners.

2:00 pm – 2:30 pm **Rapid Poster Presentations ►**
Grand Ballroom ABC Detailed listing on next pages.

2:00 pm – 3:00 pm **Break**
Exhibit Halls AB

3:00 pm – 4:00 pm **Concurrent Sessions ▼**

Revolutionizing Enteric Surveillance: The Role of HMAS in Easing the Burden of Pathogen Isolation **DDT** **NGS** **SUR** **MCB** **SRV**
Grand Ballroom ABC

588-813-24 • 1.0 contact hour for this session

Moderator: Kirsten Larson, MPH, Association of Public Health Laboratories

Updates on Highly Multiplexed Amplicon Sequencing for PulseNet Surveillance Subtyping
A. Jo Williams-Newkirk, PhD, Centers for Disease Control and Prevention

Regulatory Affairs (DUAs and IRBs): The North Carolina Experience
William A. Glover II, PhD, D(ABMM), MLS(ASCP), North Carolina Department of Health and Human Services

Challenges and Successes with Stool Extractions for HMAS: A State Public Health Perspective
Alexandria Rossheim, MS, Colorado State Public Health Laboratory

The rapid development and implementation of culture independent diagnostic tests (CIDs) continues to threaten public health surveillance of enteric pathogens. The burden and cost of isolating and identifying bacterial isolates from CIDT specimens has largely fallen to public health laboratories in recent years. The uptake of CIDs will eventually outpace public health laboratory resources effectively ending public health's ability to track enteric illness trends and detect and respond to outbreaks. It will be critical to pivot to culture-independent next-generation sequencing methods to continue to support enteric disease surveillance and outbreak detection.

Tuesday, May 7

Rapid Poster Presentations

Tuesday, May 7, 2:00–2:30 pm

Moderator: Catherine Johnson, MA, MLS(ASCP), Association of Public Health Laboratories

- P-4 Retention and Turnover: An Analysis of Workforce Dynamics in Public Health Laboratories Pre- and Post-Pandemic**
Sudaba Parnian Ahmadi, Association of Public Health Laboratories, sudaba.parnian@aphl.org
- P-8 Modernizing Electronic Laboratory Reporting**
Millie Malai, Association of Public Health Laboratories, millie.malai@aphl.org
- P-20 In-Line Sodium Sulfate Drying to Improve Reduced Sample Volume Extraction Efficiency for US EPA Method 1664B**
Deanna Bissonnette, Biotage, deanna.bissonnette@biotage.com
- P-24 Laboratory Process Improvement Through Implementation of a Hybrid *Salmonella* Serotyping Workflow**
Stephanie Abromaitis, California Department of Public Health, stephanie.abromaitis@cdph.ca.gov
- P-25 Genomic Characteristics of Long-term Infections in California COVIDNet Data**
John Bell, California Department of Public Health, john.bell@cdph.ca.gov
- P-31 Echoing Biosafety Around the World — Implementation of a Global Biosafety Community of Practice**
Aufra Araujo, Centers for Disease Control and Prevention, aka8@cdc.gov
- P-70 Laboratory Evaluation of Three Rapid Syphilis Tests Using Sera from a High Prevalence Population of MSM and TGW**
Mayur Shukla, Centers for Disease Control and Prevention, iun9@cdc.gov
- P-79 Capture and Concentrate Parasites and Yeast Using Nanotrap Particles**
Daniel Goldfarb, Ceres Nanosciences, dgoldfarb@ceresnano.com
- P-87 Comparison of Culture-based, qPCR and dPCR Methods for *E. coli* Detection at Three Milwaukee Beaches**
Julia Zimmer, City of Milwaukee Health Department Laboratory, jzimmer@milwaukee.gov
- P-107 Next Generation Sequencing (NGS) Validation and Analysis of HIV Genotypes and Drug Resistance Mutations Using Target Enrichment Methods**
Erin Plaisance, Dallas County Health and Human Services, erin.plaisance@dallascounty.org
- P-111 Genomic Analysis of the New Delhi Metallo- β -lactamase (blaNDM) Producing Carbapenem-Resistant Enterobacterales Informs the Clonal Transmission of Emerging Lineages in Georgia**
Arunachalam Ramaiah, Georgia Department of Public Health, arunachalamphd@gmail.com
- P-116 Leadership Techniques to Combat Burnout**
Adolfo Lara, Houston Health Department Laboratory, adolfo.lara@houstontx.gov
- P-140 Establishment of Prospective Genomic Surveillance and Characterization of Respiratory Syncytial Virus in Minnesota**
Daniel Evans, Minnesota Department of Health, dan.r.evans@state.mn.us

- P-148 Self-Collect *Chlamydia trachomatis* and *Neisseria gonorrhea* Prevalence Rates in 2022–2023 and the Benefit of Testing Multiple Sites Beyond Just Genital**
Bekah Reiser, Molecular Testing Labs, breiser@moleculartestinglabs.com
- P-158 Salivary Detection of Monkeypox Virus in Individuals Presenting with Lesions for Diagnostic Mpox Testing**
Theresa Zepeda, Neelyx Labs, theresa.zepeda@neelyx.com
- P-184 From Detection to Prevention — Carbapenemase-producing Organisms in Orange County**
Vida Mofidi, Orange County (CA) Public Health Laboratory, vmofidi@ochca.com
- P-191 Pennsylvania Department of Health Bureau of Laboratories Implementation of *Candida auris* PCR Using High Throughput Roche Cobas® 8800**
Lisa Dettinger, Pennsylvania Department of Health Bureau of Laboratories, ldettinger@pa.gov
- P-193 Rapid and Quantitative Detection of Intact *Legionella* Using a Novel Viability Real-Time PCR Assay**
Nathan Feirer, Promega Corporation, nathan.feirer@promega.com
- P-199 Genomic Epidemiology of *Candida auris* in a Burn Intensive Care Unit**
Hannah Barbian, Rush University Medical Center, hannah_j_barbian@rush.edu
- P-203 Implementation of a Mobile Lab-in-a-Van to Expand Access to Saliva-based PCR Testing for Respiratory Infections in Underserved Communities**
Brittany Choate, SalivaDirect, brittany@salivadirectinc.org
- P-209 Integrated Wastewater and Clinical Genomic Surveillance for Strategic Planning of Mpox Vaccination in Southern Nevada**
Horn-Yuan Kan, Southern Nevada Public Health Laboratory, kan@snhd.org
- P-215 Digital PCR Assay for Identification of Critical β -lactamases Associated with Carbapenem- and ESBL-producing Bacteria**
Chris Connelly, Streck, cconnelly@streck.com
- P-226 Comprehensive Viral Pathogens Detection in Wastewater Using Hybrid Capture Enrichment and Whole Genome Sequencing**
Linnat Immaraj, University of Alberta, immaraj@ualberta.ca
- P-240 Public Health Collaboration in the Detection, Characterization and Surveillance of a *Neisseria meningitidis* Serogroup Y Statewide Outbreak in Virginia**
Emily Craig, Virginia Division of Consolidated Laboratory Services, emily.craig@dgs.virginia.gov
- P-243 Antimicrobial Resistance Genomic Surveillance: Finding the Needle in the Haystack**
Katelin Gali, Virginia Division of Consolidated Laboratory Services, katelin.gali@dgs.virginia.gov
- P-260 Tracking the 2022–23 Influenza and RSV Seasons in Wisconsin: Comparison Wastewater Surveillance Against Clinical Laboratory and Emergency Department Data**
Ian Pray, Wisconsin Department of Health Services, ian.pray@dhs.wisconsin.gov
- P-268 Developing High-Throughput RT-PCR Testing for *Candida auris* on the Hologic Panther Fusion Open Access System**
Brandon Schumitsch-Jewell, Wisconsin State Laboratory of Hygiene, Brandon.SchumitschJewell@slh.wisc.edu

The Radiochemistry Workforce — No Longer Decaying

AVE DDT FSS CHM MCB SHC

Room 102AB

588-814-24 • 1.0 contact hour for this session

Moderator: Jack Bennett, Lawrence Livermore National Laboratory

Enhancing Support for the National Radiological Laboratory Community: EPA's Past, Present and Future Contributions

Shane Knockemus, US Environmental Protection Agency

Optimizing Radiological Emergency Response to the Food Supply: FDA Activities with the Food Emergency Response Network (FERN)

Stephanie Healey, US Food and Drug Administration

Enhancing Capacity for Radiological Response: Progress Towards a Laboratory Response Network for Radiation

Jonathan (Jon) Button, Centers for Disease Control and Prevention

Training the Next Generation of Radiochemists: A Partnership Between APHL and the University of Iowa

Dustin May, State Hygienic Laboratory at the University of Iowa

Nationwide, the radiochemistry workforce has been atrophying for decades, but new resources are available to help to address this long-term problem. This session will outline APHL's new radiochemistry workforce training program that will provide new and existing state and local laboratory radiochemists with the analytical skills to help meet their jurisdiction's public health needs. Three federal agencies will also highlight their resources related to EPA's National Analytical Radiation Environmental Laboratory, FDA's Laboratory Flexible Funding Model and its investment in food radioanalytical analysis, and CDC's Radiological Laboratory Response Network.

Enabling Public Health Electronic Test Ordering and Resulting Through Intermediaries

DAT INF SLS GEN INF MLD

Room 102C

588-815-24 • 1.0 contact hour for this session

Moderator: Rebecca McNall, Centers for Disease Control and Prevention

Speakers:

- Alyson Saadi, Louisiana Department of Health—Office of Public Health Laboratory
- Frank Delin, State Hygienic Laboratory at the University of Iowa
- Michelle Meigs, MBA, Association of Public Health Laboratories

The nation depends on public health laboratories to conduct critical and complex tests to keep our country safe from emergent threats, environmental contaminants, and food-borne illnesses. And yet, in 2024, laboratories are still grappling with manual, paper-based and outdated processes that slow the exchange of vital information between the laboratory and its partners. While recognizing the benefits of enhancing electronic messaging capabilities, laboratories too often do not have the workforce, resources or infrastructure needed to do so.

The Changing Environment of Laboratory-based Antimicrobial Resistance Surveillance Reporting — Looking Domestically and Globally for Solutions

BIOM DAT INF SLS INF SRV

Room 102DE

588-816-24 • 1.0 contact hour for this session

Speakers:

- Matthew McCarroll, MS, MSPH, Association of Public Health Laboratories
- Laura Carlton, MPH, Association of Public Health Laboratories
- Kelly Oakeson, PhD, Utah Public Health Laboratory

This session details data mapping and routing of one-to-one connections between laboratory information systems and AMR surveillance systems, the burden on the laboratory to build and maintain these connections, and solutions to centralize data.

Conundrums for Laboratorians: Regulatory and Ethical Considerations for Secondary Uses of Identifiable Biospecimens

BIOM PAR SLS ETH GEN MLD RS

Room 103C

588-817-24 • 1.0 contact hour for this session

Moderator: Robert Chirila, BA, BS, Centers for Disease Control and Prevention

Speaker: Julie Chatt-Soroka, MPH, Centers for Disease Control and Prevention

This session will help laboratorians learn responsible uses of previously collected biospecimens where no informed consent was obtained from the individual when planning and conducting scientific activities that may benefit from secondary use. After the session, they should be familiar with the regulations that establish parameters for secondary use when consent is not provided and have an awareness of other ethical matters to consider for scientific integrity.

4:00 pm – 4:30 pm **Break**

Exhibit Halls AB

4:30 pm – 5:30 pm **Concurrent Sessions ▼**

The Long and Winding Road — Transitioning from AR WGS Surveillance to Clinical Reporting

BIOM NGS PAR MCB MLD SRV

Grand Ballroom ABC

588-818-24 • 1.0 contact hour for this session

Moderator: Samantha Giffen, PhD, Centers for Disease Control and Prevention

Maintaining and Improving Clinical AR WGS Testing in the Northeast AR Lab Network

Kimberlee Musser, PhD, Wadsworth Center, New York State Department of Health

The Transition from Surveillance to Clinical Testing for Universal WGS of *Mycobacterium tuberculosis*

James Posey, PhD, Centers for Disease Control and Prevention

AMR Detection Through the Lens of NGS: Current Thinking and Regulatory Challenges

Yi Heng Yan, PhD, US Food and Drug Administration

Many labs are considering the importance and the clinical reporting of antimicrobial resistance (AR) gene variants, bacteria species identification or multilocus sequence types (MLST). When considering clinical reporting, it is important for the lab to consider the regulatory framework (CAP, CLIA, etc) in which their lab is certified as there can be nuances between them.

Rabies: Ancient Disease and Modern Problem AVE DDT SUR GEN MCB

Room 102AB

588-819-24 • 1.0 contact hour for this session

Moderator: Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa

Emerging Technologies and the Evolving Landscape of Rabies Detection Testing Methods

Sharon Messenger, MS, PhD, California Department of Public Health

Implementation of Real-time RT-PCR in the NYSDOH Rabies Diagnostics Laboratory and the Role of Whole Genome Sequencing in Rabies Diagnosis and Epidemiology

April D. Davis, DVM, PhD, New York State Department of Health

Biosafety in the Rabies Laboratory

Michael Pentella, MS, PhD, D(ABMM), State Hygienic Laboratory at the University of Iowa

Hot Topics and Tips for Rabies Laboratorians — Q&A and Interactive Panel Discussion

Sharon Messenger, April Davis, Michael Pentella and Anthony Tran

Public health laboratories serve as the main resource for rabies detection testing. This session will review current issues regarding rabies testing.

The Evolving Role of Non-targeted Analysis: Advances and Perspectives

FSS PAR SLS CHM GEN MLD

Room 102C

588-820-24 • 1.0 contact hour for this session

Moderator: John Dimandja, US Food and Drug Administration

Non-targeted Analysis Use in the FDA/Office of Regulatory Affairs Laboratories

Erica Bakota, MA, PhD, US Food and Drug Administration

Expanding Our Understanding of PFAS with Non-targeted Analysis

James McCord, PhD, US Environmental Protection Agency

Development of an SRM for Non-targeted Analysis of Volatile Organic Compounds

John Dimandja, US Food and Drug Administration

Recent advances in analytical technologies (such as high-resolution mass spectrometry) have enabled the development of emerging workflows for non-targeted analysis (NTA) in a number of important application areas. This session will focus on presenting current efforts in federal government laboratories (NIST, FDA, EPA, and CDC) to incorporate NTA methods for the enhanced screening of samples to identify and monitor new target analytes in a proactive manner.

(Not So) Odd Couples: The Power of Collaboration for Rapid Response to Emerging Threats COM COV PAR COM MLD

Room 102DE

588-821-24 • 1.0 contact hour for this session

Moderator: Alison St. John, PhD, MS, Centers for Disease Control and Prevention

Speakers:

- Kara Levinson, PhD, MPH, D(ABMM), Tennessee Department of Health
- Leslie Wolf, PhD, HCLD(ABB), Louisville Metro Department of Public Health and Wellness
- Efrem Lim, PhD, Arizona State University
- Rita Stinnett, PhD, MHS, Illumina Medical Affairs

New partnerships between public health laboratories, academic laboratories, clinical laboratories, service labs and vendors drove innovation in laboratory testing and helped scale response during the COVID-19 pandemic. In this case study-based panel discussion, laboratory leaders will share details of their successful collaborations with partners outside of the APHL membership, the challenges they have experienced and their determinants of success.

Food Fraud: What You Don't Know Can Kill You!

AVE FSS OHA PAR GEN MLD SRV RS

Room 103C

588-822-24 • 1.0 contract hour for this session

Moderator: Robyn Randolph, MS, Association of Public Health Laboratories

A Fatal Diet Nut Poisoning Case in Minnesota Foreshadows a Growing Problem

Justin Corcoran, MD, Medical College of Wisconsin

Leveraging High-resolution Mass Spectrometry to Investigate a Diet Nut Poisoning with Global Implications

Sinisa Urban, PhD, Maryland Department of Health Laboratories Administration

Regulatory Basis and Challenge of Regulating Online Food Sales: Diet Nut Poisonings

Katherine Arnold, US Food and Drug Administration

Food fraud is the deliberate substitution of foods with something they are not for economic gain, but situations turn deadly when the substitute is poisonous. This session will describe the clinical discovery of mislabeled 'diet nuts' through a tragic lethal case in Minnesota, a public health food fraud investigation in Maryland that established the product's true identity and exposed dangerous blind spots in laboratory methods, and the successes and challenges of the widespread regulatory action FDA is taking to prevent further poisonings.

5:30 pm – 6:30 pm

Networking Reception

Exhibit Halls AB

Tuesday, May 7

7:00 am – 5:30 pm Registration

Grand Ballroom ABC Pre-function

7:00 am – 8:00 am Break

Room 102 Pre-function

7:30 am – 8:30 am Roundtable Sessions ▼

Biosecurity Mastery: Navigating Critical Scenarios Through Exercises

BIOS **SLS** **WDT** **EMR** **SEC** **WFT**

Room 101AB

588-823-24 • 1.0 contact hour for this session

Speakers:

- Michael Perry, MS, MS Ed, Wadsworth Center, New York State Department of Health
- Drew Fayram, MS, CBSP(ABSA), RBP(ABSA), Merrick & Company
- Stormy Chester, BS, Association of Public Health Laboratories

Explore the Association of Public Health Laboratories (APHL) newly developed biosecurity toolkit designed to enhance biosecurity measures in laboratories. Participate in a tabletop exercise using the toolkit scenarios, contribute your insights and engage in discussions on ongoing biosecurity efforts to collaboratively shape the future of laboratory biosecurity practices. Join this interactive session to foster knowledge exchange and strengthen your ability to identify and mitigate potential biosecurity risks.

The Impact of Bias in the Hiring Process **SEI** **WDT** **ETH** **MLD** **WFT**

Room 101C

588-824-24 • 1.0 contact hour for this session

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

Speakers:

- Shonetta Smith, PhD, NRCC(TC), North Carolina State Laboratory of Public Health
- Lisa Chilcote, Association of Public Health Laboratories
- Nandhu Balakrishnan, MS, PhD, HCLD(ABB), Georgia Public Health Laboratory

This session will begin with an interactive activity to uncover personal bias that might influence hiring decisions. The panel will openly discuss how affinity bias can influence judgement and will suggest strategies to avoid a candidate selection that aligns with personal preference instead of the criteria of the job.

Know Before They Go! Field Experience Using the Knowledge Retention

Toolkit **SLS** **WDT** **MLD** **QMS** **WFT**

Room 101DE

588-825-24 • 1.0 contact hour for this session

Moderator: Jack Bennett, BS, Lawrence Livermore National Laboratory

Speakers:

- Kathryn Wangsness, MHA, Arizona Public Health Laboratory
- Kara Levinson, PhD, MPH, D(ABMM), Tennessee Public Health Laboratory

With the rapid turnover of the workforce, sustaining organizational knowledge is even more critical to avoid loss of productivity, errors and rework in day-to-day operations as well as develop subject matter expertise. During this session, presenters will share their experiences on how they used the APHL Knowledge Retention Toolkit to support retention of knowledge, career progression and succession planning. New tool features will also be covered.

It's Getting Hot in Here: Addressing Temperature and Other Test-specific**Requirements** BIOS DDT QLM GEN QMS

Room 102AB

588-826-24 • 1.0 contact hour for this session

Moderator: LeAnne Burns, BS, Georgia Public Health Laboratory**Speaker:** Susan Orton, PhD, D(ABMLI), North Carolina State Laboratory of Public Health

Through case studies and expert insights, this session will highlight implementation strategies that meet the complex regulatory compliance of monitoring sample, equipment and laboratory environment, such as temperature and humidity.

Effective Communication for Aspiring Laboratory Leaders

COM SLS WDT COM WFT

Room 102DE

588-827-24 • 1.0 contact hour for this session

Moderator: Jade Wang, MS, New York City Public Health Laboratory**Conflict Resolution**

Derek Seidel, PhD, Texas Department of State Health Services

Empowering Colleagues

Yoshinori Nakazawa, PhD, Centers for Disease Control and Prevention

Relationship Building

Lucas Beversdorf, MS, PhD, City of Milwaukee Health Department

This session will focus on the Leadership Development Toolkit created by Cohort 17 of the Association of Public Health Laboratories (APHL) Emerging Leader Program (ELP), describing how effective communication skills can assist in empowering laboratorians to transition into the next generation of public health leaders.

8:30 am – 9:00 am Break

Grand Ballroom ABC Pre-function

9:00 am – 10:30 am Awards Ceremony and Breakfast

Grand Ballroom D

Sponsored by Hologic

10:00 am – 3:30 pm **Exhibit Hall Open**
Exhibit Halls AB

10:30 am – 11:00 am **Break**
Exhibit Halls AB

11:00 am – 12:00 pm **Concurrent Sessions ▼**

Advancing Laboratory Testing for Overdose Surveillance: Implementation of the Overdose Biosurveillance Strategy BIOS SLS PAR CHM SRV
Grand Ballroom ABC

588-828-24 • 1.0 contact hour for this session

Moderator: Ewa King, PhD, Association of Public Health Laboratories

CDC Division of Overdose Prevention's Approach to Overdose Surveillance and Prevention
Amanda J. Smith, MPH, Centers for Disease Control and Prevention

Overdose Biosurveillance Task Force: Pivoting to Meet the Needs for Polysubstance Testing in Public Health Labs
Amy Miles, BS, Wisconsin State Laboratory of Hygiene

Building a Laboratory Surveillance Program from the Ground Up: Vermont's Experience in Entering the National Opioid Biosurveillance System
Jill Warrington, MD, PhD, Vermont Department of Health Laboratory

This session will provide an overview of the drug overdose crisis in the United States, focusing on the substances driving the trends observed, introduce the work of the Overdose Biosurveillance Task Force and the new biosurveillance strategy for polysubstance use, and describe how the new strategy can be implemented by public health laboratory partners.

Trials and Tribulations: Packaging and Shipping High-Consequence and Emerging Threats BIOS PAN SLS EMR GEN SEC
Room 102AB

588-829-24 • 1.0 contact hour for this session

Moderator: Jill Sutton Hanratty, BS, Association of Public Health Laboratories

Speakers:

- Christina Egan, PhD, CBSP, Wadsworth Center, New York State Department of Health
- Russell Drury, BS, APHL Public Health Preparedness and Response Committee
- Jason Wholehan, Michigan Department of Health and Human Services, Bureau of Laboratories

Strict adherence to guidelines for the proper handling, processing, and packaging and shipping is paramount to ensuring that sample integrity as well as the safety of laboratory personnel and the public are not compromised. During this session, speakers will describe the vital role that laboratories fulfill in protecting the public's health through safe handling and transportation of high-consequence and emerging pathogens, such as select agents and toxins, shipping challenges during responses, best practices for regulatory compliance and conducting continuous training, and highlight valuable tools and resources for packaging and shipping emerging threats.

Use of Environmental Microbiology Data in Outbreak Response —

Visions, Stories and Resources BIOS DAT SLS WDT EMR MCB SEC

Room 102C

588-830-24 • 1.0 contact hour for this session

Moderator: Mia Mattioli, MS, PhD, Centers for Disease Control and Prevention

***A Naegleria fowleri* Outbreak Associated with a Splashpad in Arkansas**

Katie Seely, PhD, HCLD(ABB), Arkansas Department of Health

Microbial Source Tracking Helps Link Campylobacteriosis Outbreak to Municipal Water in Nebraska

Rachael Birn, MPH, Nebraska Department of Health and Human Services/University of Nebraska Medical Center

Pairing Environmental, Epidemiological and Laboratory Methods to Investigate *Legionella* Disease Outbreak

Nárjara Veras Grossmann, DVM, MS, MPVM, a-IPC, Napa County Health and Human Services, Public Health

From preparedness to identification of causal microorganisms, infectious microbial disease outbreaks associated with environmental systems present unique challenges to jurisdictions. In this session, we will explore state responses to past microbial disease outbreaks caused by *Naegleria fowleri*, *Campylobacter* and *Legionella*. We will also discuss federal and APHL resources and strategies for the use of environmental microbiology data to support water-related outbreak response and preparedness.

Hot Topics in Syphilis and Gonorrhea Testing DDT SUR GEN MCB

Room 102DE

588-831-24 • 1.0 contact hour for this session

Moderator: Randal Fowler, PhD, Tennessee Department of Health

Speakers:

- Kara Mitchell, PhD, Wadsworth Center, New York State Department of Health
- Emily Travanty, PhD, Colorado Department of Public Health and Environment
- Tyler Maruca, MS, Maryland Department of Health Laboratories Administration

This session will cover relevant topics in laboratory testing for Syphilis and Gonorrhea in public health laboratories (PHLs). Speakers will describe how their laboratories overcome diagnostic testing and workflow challenges that include: lack of routine tests for the direct detection of *Treponema pallidum*, the causative agent of syphilis; cumbersome syphilis testing algorithms that rely upon manual tests and that can be difficult to interpret in certain individuals; and the emergence of drug resistance in the fastidious organism *Neisseria gonorrhoeae* necessitating a strong surveillance response.

Contamination Chronicles: Unmasking the Unusual in Public Health

Investigations CHM MCB SRV AVE DDT FSS PAR RS

Room 103C

588-832-24 • 1.0 contact hour for this session

Moderator: Cynthia M. Mangione, New York State Department of Agriculture and Markets

What Not to Put on Your Slip-n-Slide

Kelly Oakeson, PhD, Utah Public Health Laboratory

TBD presentation

Megan Davis, MS, South Carolina Department of Health Environmental and Control

It's Always Someone You Know: Leveraging LFFM to Investigate Food Adulterations

Amanda Woods, MS, Virginia Division of Consolidated Laboratory Services

Public health laboratories are often involved in outbreak investigations due to microbial or chemical contamination. In some cases, the investigation concerns reoccurring products or contaminants but in others, the contamination is in unique products and/or from intriguing sources. In this session, unusual and odd investigations will be presented. The speakers will relay the story of peculiar contaminations and resulting public health implications. In some cases, the investigations were multi-jurisdictional, including state and federal regulatory programs. Stories could include an *E. coli* O157:H7 outbreak linked to the use of a backyard slip and slide, an *L. mono* outbreak linked to "chicken" ice cream, and suspected poisoning linked to several household products.

12:00 pm – 1:30 pm Lunch (in the exhibit hall)

Exhibit Halls AB

1:30 pm – 2:30 pm Plenary Session

Grand Ballroom ABC

Wastewater Surveillance for Public Health: Rising to the Challenge

COV DDT WSU CHM EMR RES

588-833-24 • 1.0 contact hour for this session

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

Updating the Status of Wastewater Testing on a National Level

Rory Welsh, PhD, Centers for Disease Control and Prevention

Wastewater Surveillance Beyond COVID-19: Considerations and Challenges of Implementing Surveillance for New Targets

Dagmara Antkiewicz, PhD, Wisconsin State Laboratory of Hygiene

Piloting a Multimodal EV-D68 Surveillance System: A Colorado Wastewater Case Study

Shannon Matzinger, PhD, Colorado Department of Public Health and Environment

Technical Challenges in Expanding Wastewater Sequencing While Meeting the Needs of the Epidemiologists and Stakeholders

Eric L. Vaughn, DrPH, MPH, Washington, DC DFS Public Health Laboratory

Data to Action: Wastewater and Public Health Action in Houston, TX

Rebecca Schneider, MS, Houston Health Department

The session will provide an overarching view of wastewater surveillance, including a high-level overview of its status, challenges and its potential growth for public health action. The session will also focus on case studies and success stories from various laboratories, demonstrating successful implementation of wastewater testing in different contexts, with a special emphasis on technology, data interpretation and epidemiological relevance.

2:30 pm – 3:30 pm

Exhibit Halls AB

Break and Raffle (3:00 pm)

3:30 pm – 4:30 pm

Concurrent Sessions ▼

Weird Science: Solving Public Health Puzzles

BIOS OHA SUR EMR MCB SRV

Grand Ballroom ABC

588-834-24 • 1.0 contact hour for this session

Moderator: Anthony Tran, DrPH, MPH, D(ABMM), California Department of Public Health

Speaker: Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories

The public health laboratory is often the laboratory of last resort for diagnosis of unusual cases, detection of emerging infectious diseases and outbreaks. In the ID Committee’s seventh year coordinating this popular quiz-based session, we are changing up the format to allow more audience participation! Instead of a panel of experts, our hosts will present a series of unusual public health cases and we will challenge the audience to answer the questions through an interactive format. Cases will be collated and presented by two cohosts, who will ensure appropriate content and delivery. Will the audience be able to solve the public health laboratories’ most challenging infectious disease puzzles?

PFAS by the Numbers: A Story of 6, 29 and 12,034

AVE DDT OHA PAR CHM GEN

Room 102AB

588-835-24 • 1.0 contact hour for this session

Moderators:

- Michael Schueller, MS, State Hygienic Laboratory at the University of Iowa
- Shane Wyatt, BS, Virginia Division of Consolidated Laboratory Services

A Drinking Water Utility’s Perspective on Compliance Testing Under the New PFAS Rule

Hunter Adams, MS, Cypress Environmental Laboratory

An Update on UCMR5 — What Is the True Prevalence of PFAS?

Gregory Carroll, MBA, US Environmental Protection Agency

Towards Testing for 12,034 PFAS: An Historic EPA-State Collaboration

Sinisa Urban, PhD, Maryland Department of Health Laboratories Administration

Per- and polyfluoroalkyl substances (PFAS) are a group of >10,000 synthetic, ‘surface-acting’ chemicals that have widespread commercial uses, but also persist for years in the environment and confer a myriad of detrimental health effects. This session will detail how EPA and states are collaborating to regulate six PFAS, defining the prevalence of 29 PFAS and developing methods to detect all 12,034 PFAS analytes.

Wednesday, May 8

Elevating Workforce Strategies and Uniting Efforts for a Stronger Workforce: Recruitment, Retention, Diversity and Visibility

PAR SLS WDT **MLD** **WFT**

Room 102C

588-836-24 • 1.0 contact hours for this session

Speaker: Ryan Soles, PhD, American Society for Clinical Pathology

In today's dynamic professional landscape, the ability to attract, retain and cultivate a diverse and visible laboratory workforce is paramount. This course combines these essential elements, delving into innovative approaches and best practices designed to enhance laboratory workforce effectiveness. This session emphasizes the importance of collaboration and cohesion in achieving a robust and resilient laboratory workforce, exploring the intricacies of recruitment and retention with a strong emphasis on diversity and visibility. Attendees will gain insights into the latest strategies, tools and success stories from experts in the field, equipping them to elevate their own laboratory workforce initiatives and unite their efforts for a stronger, more vibrant workforce.

Building Capacity and Sustainable Laboratories Through Twinning in Indonesia **PAR** **SLS** **WDT** **MLD** **WFT**

Room 102DE

588-837-24 • 1.0 contact hour for this session

Moderator: Shannon Emery, MSPH, Association of Public Health Laboratories

Speakers:

- Sandip Shah, PhD, MSc, HCLD(ABB), M(ASCP), Michigan Department of Health and Human Services
- Marty Soehnnlen, PhD, MPH, HCLD(ABB), Michigan Department of Health and Human Services
- Frances Pouch Downes, DrPH, Michigan State University

In collaboration with the Ministry of Health of Indonesia, APHL, through cooperative agreement funding provided by the CDC, has initiated a partnership program between the Yogyakarta and Palembang Public Health Laboratories in Indonesia and the Michigan State Public Health Laboratory. Representatives from Michigan will elaborate on the development of this partnership, the in-person exchanges and the webinars that have collectively enhanced the laboratory capacity of all three facilities.

Save Money, Save Time, Be More Efficient: Process Improvement for Enteric Pathogens **DDT** **QLM** **SLS** **GEN** **MCB** **QMS** **RS**

Room 103C

588-838-24 • 1.0 contract hour for this session

Moderator: Stephanie Abromaitis, PhD, California Department of Public Health

Streamlining Workflows for Enteric Pathogens

Dave Boxrud, MS, Centers for Disease Control and Prevention

Continuous Quality Improvement and Its Impact on Turnaround Times

Kelly Oakeson, PhD, Utah Public Health Laboratory

Maximizing Lab Efficiency: Transforming Enteric Pathogen Testing with Modern Tools
Jisun Haan, PhD, Minnesota Department of Health

The number of specimens and isolates received at public health laboratories (PHLs) for enteric isolation, identification and characterization has increased due to culture-independent diagnostic tests. The test volume increase has placed an additional burden on PHLs. This session will provide strategies and examples of how PHLs have used process improvement to reduce cost and increase efficiency.

4:30 pm – 5:00 pm Break

Grand Ballroom ABC Pre-function

5:00 pm – 6:00 pm Member Assembly

Grand Ballroom ABC

Thursday, May 9, 2024

7:00 am – 12:00 pm Registration

Grand Ballroom ABC Pre-function

7:00 am – 8:00 am Break

Room 102 Pre-function

7:30 am – 8:30 am Roundtable Sessions

Health Equity and the Role of Public Health Laboratories in Advancing Access to Laboratory Testing During Public Health Emergencies

COM SEI SLS WDT ETH MLD WFT

Room 101AB

588-839-24 • 1.0 contact hour for this session

Moderator: Stephanie Barahona, MS, Association of Public Health Laboratories

Speakers:

- Ashley Marshall, MPH, Centers for Disease Control and Prevention
- Dana Baker, EdD, MBA, MS, MLS(ASCP)CM, Association of Public Health Laboratories

This roundtable will explore health equity issues related to laboratory testing during public health emergencies and the role of public health laboratories in advancing equitable access to point-of-care testing to mitigate community transmission. Speakers will share information about a scoping review to identify promising approaches to increase equitable access to testing during public health emergencies and speak to the value of partnership between clinical laboratories and public health laboratories in advancing health equity.

Wednesday, May 8 / Thursday, May 9

Collaboration with Partners During Food Safety Investigations —

A One Health Perspective **COM** **FSS** **OHA** **COM** **MLD** **QMS** **RS**

Room 101C

588-840-24 • 1.0 contact hour for this session

Moderator: Alyssa Dickey, PhD, New York State Department of Agriculture and Markets

Speakers:

- Maria Ishida, PhD, New York State Department of Agriculture and Markets
- Carrie Crabtree, PhD, Georgia Department of Agriculture
- Travis Goodman, RS, US Food and Drug Administration

Food safety investigations require coordination for expeditious response. The concept of One Health considers threats to the health of humans, animals and environment and strategies to improve outcomes. Recent foodborne outbreaks and involvement of regulatory frameworks including the FDA's Laboratory Flexible Funding Model (LFFM) and Rapid Response Teams (RRT) will be discussed. Participants will highlight successes and identify approaches to improve communication and collaboration in preventing and responding to food safety events.

Practice, Practice, Practice: Regional Consortia Tabletops and Their Utility for Enhancing Regional Preparedness **BIOS** **SLS** **WDT** **EMR** **SEC** **WFT**

Room 101DE

588-841-24 • 1.0 contact hour for this session

Moderator: Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories

Speakers:

- Matthew Johnson, BS, Kentucky Public Health Laboratory
- Nicole Green, PhD, D(ABMM), Los Angeles County Department of Public Health

Representatives from the Southeast CoLABorators and Pacific Rim Regional Consortia will discuss the utility of tabletop exercises as part of their preparedness activities. These tabletop scenarios enabled states within these regions to exercise their continuity of operations plans (COOP) when dealing with a wide range of emergency situations, from viruses to natural disasters to cyber-attacks.

Moving Facilities: Continuity of Operations Planning and Considerations for Safety and Security **BIOS** **COM** **SLS** **QLM** **EMR** **MLD** **QMS** **SEC**

Room 102AB

588-842-24 • 1.0 contact hour for this session

Moderator: Andrew C. Cannons, PhD, HCLD/CC (ABB), Florida Bureau of Public Health Laboratories — Tampa

Speakers:

- Jeremy Corrigan, MS, San Diego County Public Health Services — Laboratory
- Drew Fayram, MS, CBSP(ABSA), RBP(ABSA), Merrick & Company

Public health laboratory leaders and partners with experience in laboratory safety, security, quality systems and transition planning for moving into a new facility will lead this roundtable discussion focusing on move preparation planning and facilitation of the actual move, coordination of quality systems processes to implement prior to opening the new laboratory facility, and considerations for evaluating facility safety and security.

Passion for the Profession: Building the Public Health Laboratory Team!

COM WDT MLD WFT

Room 102DE

588-843-24 • 1.0 contact hour for this session

Moderator: Bernadette Matthis, MSBA, MT(ASCP)CM, Philadelphia Bureau of Laboratories

Speakers:

- Roxanne Alter MS, MLS (ASCP)CM, Retired University of Nebraska Medical Center, President of ASCLS-NE
- Erin Bowles, BS, MLS(ASCP), Wisconsin State Laboratory of Hygiene
- Leah D. Gillis, MS, PhD, HCLD(ABB), University of South Florida, College of Public Health

What sets us apart from other healthcare professions? Our laboratory science profession needs a united vision to portray our profession and identify ourselves. Individual titles may differ; however, identifying ourselves by a common name is important for establishing recognition of our profession.

8:30 am – 9:00 am Break

Grand Ballroom ABC Pre-function

9:00 am – 10:00 am Plenary Session

Grand Ballroom ABC

Public Health Showdown: Tuberculosis vs. *Candida auris* – Unveiling the Greatest Threat

DDT OHA SUR MCB SRV

588-844-24 • 1.0 contact hour for this session

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

Speakers:

- Mark Pandori, PhD, Nevada State Public Health Laboratory
- Marie-Claire Rowlinson, PhD, D(ABMM), Florida Bureau of Public Health Laboratories

Two formidable adversaries, Tuberculosis and *Candida auris*, are both public health threats causing significant morbidity and mortality worldwide. This interactive debate-style session will dissect these microbial foes and shed light on their respective impacts.

10:00 am – 10:30 am Break

Grand Ballroom ABC Pre-function

10:30 am – 11:30 am Plenary Session

Grand Ballroom ABC

The Climate Crisis: Public Health Laboratories' Call to Action

OHA **PAN** **SLS** **MLD** **SRV**

588-845-24 • 1.0 contact hour for this session

Moderator: Keri Fisher, Michigan Department of Health & Human Services

Speakers:

- James Schauer, PhD, Wisconsin State Laboratory of Hygiene
- Ashlinn Quinn, PhD, National Institute of Health/National Institute of Environmental Health Sciences
- Heather Blankenship, PhD, Michigan Department of Health & Human Services

Exploring the impacts of climate change on infectious diseases, environmental safety, and discussing adaptive and proactive approaches for effective response.

11:30 am APHL 2024 Adjourns

12:30 pm – 5:00 pm Optional Tours (*pre-registration is required*)

- Wisconsin State Public Health/Environmental Health Laboratory or
- Madison Nine Springs Wastewater Treatment Facility

12:30 pm – 2:00 pm

- City of Milwaukee Public Health Laboratory

Save the Dates for APHL 2025!

**May 5–8, 2025
Portland, OR**

SAVE *the* DATE

SEPTEMBER
is
**Public Health Laboratory
Appreciation Month**

Celebrating Public Health Laboratory Staff

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#ThanksPHLabs



*For more information,
and a chance to share
your feedback, visit the
**APHL Experience
booth #114***

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At **Key Proteo**, we aim to save lives and relieve the burden of disease for patients and their families afflicted by rare treatable genetic disorders through early screening. Through our rapid, scalable pioneering proteomic technology, we empower early intervention to alter the clinical trajectory, starting with newborns today and paving the way for applications across diverse patient populations tomorrow.



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#702 to learn more.

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www.keyproteo.com

EXHIBIT HALL

Network with industry peers and experts! We have a diverse exhibit hall, ready to bring you the latest in technology and equipment solutions.

- Visit with exhibitors to chat and learn of their products and services.
- Meet with poster presenters to learn the latest science, trends and practices.
- Enjoy connecting with attendees at breaks and receptions.



Exhibit Hall Schedule

Monday, May 6

3:00 pm – 6:30 pm	Hall Open
3:30 pm – 4:00 pm	Afternoon Break
5:00 pm – 6:30 pm	Welcome Reception
5:30 pm – 6:00 pm	Poster authors #1–138 available for questions

Tuesday, May 7

10:00 am – 6:30 pm	Hall Open
10:00 am – 10:30 am	Morning Break
11:30 am – 1:00 pm	Lunch (provided in the hall)
12:00 pm – 12:30 pm	Poster authors #139–273 available for questions
2:00 pm – 3:00 pm	Afternoon Break
4:00 pm – 4:30 pm	Afternoon Break
5:30 pm – 6:30 pm	Networking Reception

Wednesday, May 8

10:00 am – 3:30 pm	Hall Open
10:30 am – 11:00 am	Morning Break
12:00 pm – 1:30 pm	Lunch (provided in the hall)
2:30 pm – 3:30 pm	Afternoon Break
3:00 pm – 3:30 pm	Raffle Drawing in the Exhibit Hall

EXHIBITORS BY BOOTH

Details for exhibitors are listed starting on page 55.

Exhibit Hall

100	Advanced Instruments	403/405/407	Roche Diagnostics Corporation
102	SCC Soft Computer	404/406	Clear Labs
101/103	InBios International	414	LabVantage
104	BioGX	415/417	Bio-Rad Laboratories
105	Hamilton Company	416	PacBio
106	HOK	418	University of South Florida
107	Standard BioTools	419	Twist Bioscience
114	APHL Experience	420	HiComp Microtech
115	MRI Global	421	American Public Health Association
117	Seegene USA	500	HDR
119	Datapult	501	INTEGRA Biosciences
121	Guidehouse	502	New England BioLABS
200/202	Promega	503	Bruker
201	Clinisys	504	Gold Standard Diagnostics Davis
203	STAT Courier Service	505/507	Abbott Laboratories
204	Tecan	506	Ceres Nanosciences
205	OpenELIS Foundation	514	InductiveHealth
206	J Michael Consulting	515	Zymo Research Corp.
207	Waters Corporation	516	AnalytiChem
214	STARLIMS	517	Flad Architects
215	Puritan Medical Products	518	Oxford Nanopore Technologies
216	Fisher Healthcare	519	iConnect Consulting
217	Microbiology international	520	National Jewish Health
218	Retractable Technologies	521	Gold Standard Diagnostics Horsham
219	J.H. Findorff & Son	600	Illumina
220	BGASoft, Inc.	601	Microsensor Laboratories
221	World BioHazTec	602	BioPerfectus Technologies, Inc.
300/302	Hologic	603	CURIS System
301	Cepheid	604	Genial/Rainbow Scientific
303	BugSeq	605	Amazon Web Services
304	Diagenode	606	DiaSorin
305/307	Thermo Fisher Scientific	607	SEAL Analytical
306	QuidelOrtho	614	Baebies
314	Streck	615	American Proficiency Institute
315/317	QIAGEN	616	Sebia
316	Redbud Labs	617/619	Centers for Disease Control and Prevention
318/320	Biotage	618	APHL Career Pathways
319	Innovaprep	620	ABSA Interanational
321	Arlington Scientific	621	Verily
400	Ruvos	700	American Association of Laboratory Accreditation
401	Theiagen Genomics		
402	GT Molecular		

EXHIBIT HALL FLOOR PLAN

- 701

WSH Proficiency Testing
- 702

Key Proteo
- 703

Primary.Health
- 704

Radox Laboratories
- 705

ASRT/ABIL
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Vela Diagnostics
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IMMY
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Government Scientific Source
- 715

GENPAX
- 716

YourBio Health
- 717

binx health
- 718

TubeWriter
- 719/721

Revvity
- 720

Restek Corporation

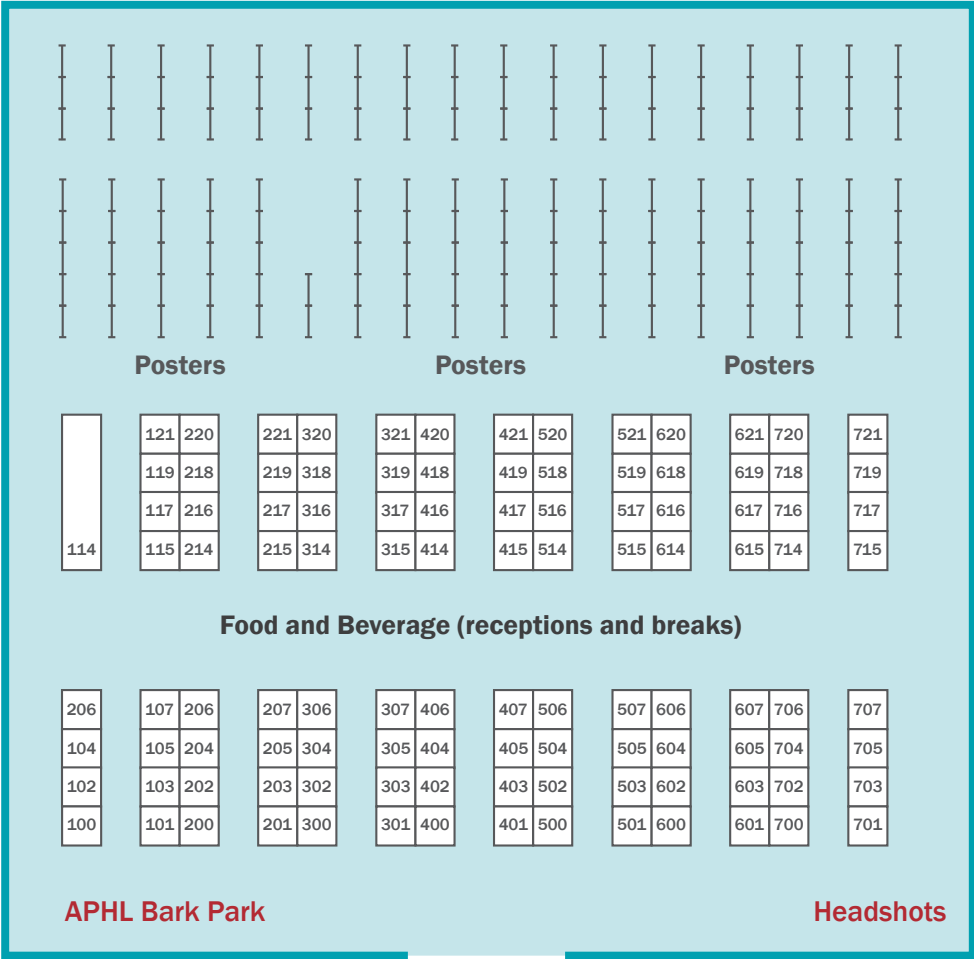


Exhibit Hall

ENTRANCE

Exhibit Halls AB, 3rd Floor

Thank You to Our Sustaining Members!

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- Theiagen Genomics
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- Integra Biosciences Corporation
- National Jewish Health Advanced Diagnostic Laboratory
- New England BioLabs, Inc.
- Primary.Health
- Promega
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- Pacific Biosciences
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- Zymo Research Corporation

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- Clinical and Laboratory Standards Institute
- Diagnostic Laboratory Services, Inc.

EXHIBITORS

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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.

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1200 Allanson Rd., Mundelein, IL 60060
773.551.2202 • www.absa.org

ABSA International was founded in 1984 to become a global leader for providing professional and scientific expertise in the practice of biosafety and biosecurity. ABSA's core purpose is to promote and expand biosafety and biosecurity expertise through training, standards, publications, networking, resources, advocacy, annual biosafety/biosecurity conference and professional credentials.

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Amazon Web Services, Inc.

410 Terry Ave. N, Seattle, WA 98109
315.569.8621 • <https://aws.amazon.com/stateandlocal/health-and-human-services/cloud-resources/#publichealth>

Amazon Web Services (AWS) helps public health customers deploy cloud services to reduce costs, drive efficiencies, and increase innovation across the globe. Public Sector organizations of all sizes use AWS to build applications, host websites, harness big data, store information, conduct research, improve online access for citizens, and more. AWS has dedicated teams focused on helping our customers pave the way for innovation and, ultimately, make the world a better place through technology.

Booths 505/507

Platinum Member

Booth 620

Booth 100

Booth 605

American Association of Laboratory Accreditation**Booth 700**

5202 Presidents Court, Frederick, MD 21703
301.644.6248 • www.a2la.org

A2LA is an internationally recognized accreditation body whose primary mission is to provide comprehensive accreditation services for laboratories, inspection bodies, proficiency testing providers, reference materials producers, and product certification bodies. Assessments are conducted using international standards and field-specific technical requirements developed in cooperation with the government and industry.

American Proficiency Institute**Booth 615**

1159 Business Park Dr., Traverse City, MI 49686
800.333.0958 • www.api-pt.com

American Proficiency Institute (API), the leading innovator in proficiency testing programs for the clinical laboratory, provides superior value to the laboratory customer. API offers a wide number of proficiency testing programs, automated result transmission, creative online services, cost savings and free continuing education. When it comes to proficiency testing, reliability is everything and API is fully committed to supporting you with technical expertise and prompt, personal service.

American Public Health Association**Booth 421**

800 I St., NW, Washington, DC 20001
202.777.2742 • www.aphapress.org

APHA serves as a convenor, catalyst and advocate to build capacity in the public health community. We champion optimal, equitable health and well-being for all. We speak out for public health issues and policies backed by science. We are the only organization that combines a 150-year perspective, a broad-based member community and the ability to influence federal policy to improve the public's health.

AnalytiChem**Booth 516**

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516.556.8930 • www.analytichem.com

AnalytiChem, established in 2021, offers a comprehensive range of specialized reference materials, culture media, lab consumables, and sample prep equipment, prioritizing tailored solutions for optimal outcomes. Leveraging expertise from industry leaders, we deliver an integrated value proposition for material science, environmental, petroleum, animal health, and chemical sectors. With ISO 17034, ISO/IEC 17025, and ISO 9001 certifications, we enable scientific advancements, enhancing operational efficiency, environmental protection, and global infrastructure support.

APHL Career Pathways**Booth 618**

7700 Wisconsin Ave., Suite 1000, Bethesda, MD 20814
240.485.3826 • www.aphl.org/career-pathways

APHL's Career Pathways are represented by four programs: Internships, Fellowships, Leadership and Academic Partnerships. These APHL and CDC initiatives support the development of the future public health laboratory workforce from early college careers all the way through to programs that support laboratory professionals becoming laboratory leaders. Learn more about opportunities to develop your leadership skills, connect with community partners to recruit the future workforce and how you can inspire interns or fellows through mentorship.

APHL Experience

7700 Wisconsin Ave., Suite 1000, Bethesda, MD 20814
240.485.2745 • www.aphl.org

Connect with APHL staff and discover new resources while picking up some swag! Come visit the booth during breaks as we demonstrate new tools and programs created for you — see the schedule in the front of this program. We will also be interviewing attendees about their experiences and collecting stories to highlight the work of APHL members.

Arlington Scientific

1840 N. Technology Dr., Springville, UT 84663
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Arlington Scientific, Inc. is a trusted market leader in the development and manufacturing of high-quality in-vitro diagnostic test kits, with a specialized focus on syphilis screening. Our flagship product, the ASI Evolution Automated RPR Syphilis Analyzer, is FDA cleared for diagnostic, blood, plasma, and cadaveric (non-heart beating) tissue screening. With forty years of experience, we annually manufacture millions of serology tests, made in the USA, ensuring quality and reliability, and supported by exceptional customer service.

ASRT/ABIL

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678.612.3667 • www.asrtinc.com

Booth 114

Booth 321

Booth 705

Exhibitors

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Booth 614
Silver Member

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Booth 220

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binx health

245 First St., Riverview II, 18th Floor, Cambridge, MA 02142
508.530.8158 • mybinxhealth.com

Booth 717

binx health is a healthcare technology and diagnostics company focused on innovating solutions to improve routine testing and convenience, providing timely results to improve patient care. The binx io point-of-care molecular platform is the first ever FDA-cleared, CLIA-waived point-of-care system for the detection of chlamydia and gonorrhea in both males (urine) and females (vaginal swab) that provides central lab performance results in about thirty minutes. The binx io platform is highly flexible, easy to use, and enables rapid testing and treatment in a single patient visit.

BioGX

2450 Valleydale Rd., Birmingham, AL 35244
818.304.5505 • www.biogx.com

Booth 104

BioPerfectus Technologies, Inc.

12 Michigan Dr., Natick, MA 01760
www.bioperfectus.com

Booth 602

BioPerfectus (SSE: 688399) stands at the forefront of the molecular diagnostics industry, with a specialization in "diagnostics for infectious diseases and women's and children's health". Founded in 2010, BioPerfectus consistently emphasizes R&D, manufacturing, and the distribution of in-vitro diagnostic reagents and instruments. With a diverse portfolio of over 600 products, BioPerfectus caters to a broad spectrum of medical institutions, CDCs, and independent clinical laboratories across more than 100 countries and regions.

Bio-Rad Laboratories

4000 Alfred Nobel Dr., Hercules, CA 94547
510.741.4019 • www.bio-rad.com/diagnostics

Booths 415/417**Diamond Member**

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 testing, molecular diagnostics, and quality control solutions. Bio-Rad's molecular based offerings include market-leading droplet digital PCR technology and real-time PCR solutions.

Biotage

10430 Harris Oaks Blvd., C, Charlotte, NC 29269
704.654.9000 • www.biotage.com

Booths 318/320

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Booth 503**Corporate Colleague**

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BugSeq

2-1831 Trafalgar St., Vancouver, BC V6K 3S1 Canada
877.334.8715 • www.bugseq.com

Booth 303**Gold Member**

At BugSeq, we empower public health laboratories to improve the lives of patients and communities by leveraging genomic data. BugSeq's bioinformatic analysis suite delivers unparalleled data analytics to convert sequencing data into actionable results. We provide rapid and leading accuracy algorithms, coupled with best-in-class databases to provide microorganism identification, antimicrobial resistance prediction and strain characterization, enabling broad adoption of sequencing to improve health.

Centers for Disease Control and Prevention**Division of Laboratory Systems / DLS OneLab Initiative**

2400 Century Center Parkway, Atlanta, GA 30333
404.498.6855 • ygu2@cdc.gov

Booths 617/619

Join CDC's Division of Laboratory Systems at the APHL conference to explore how exemplary laboratory practices and systems enhance clinical care, public health, and emergency response while promoting health equity. Discover free tools that advance laboratory systems and ultimately improve public health and patient outcomes.



Delivering for public health



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Booth 301
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Booth 506
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Clear Labs

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www.clearlabs.com

Booths 404/406
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Clear Labs harnesses the power of next-generation sequencing (NGS) to simplify complex genomics applications for the public health community. By providing a fully automated platform that brings together DNA sequencing, robotics and cloud-based bioinformatics and analytics, Clear Labs is liberating genomics to all. Clear Labs provides our customers with everything they need to perform NGS across a range of applications including COVID surveillance, wastewater sequencing, PulseNet, tuberculosis, GenomeTrakr, Healthcare-Associated Infections (HAIs), amongst others.

Clinisys

3300 E. Sunrise Dr., Tucson, AZ 85718
520.570.2000 • www.clinisys.com

Booth 201
Gold Member

Clinisys enables healthier and safer communities as a global provider of intelligent diagnostic informatics solutions and expertise that redefine the modern laboratory across healthcare, life sciences, public health and safety. Millions of laboratory results and data insights are generated every day using Clinisys' platform and cloud-based solutions in over 3,500 laboratories across 34 countries.

CURIS System

610 Kane Court, Oviedo, FL 32765
800.928.8708 • www.curissystem.com

Booth 603

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240.485.2325 • www.datapultaphl.org

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Our mission is to provide the highest quality genomics-based analysis to deliver a global surveillance solution in the fight against a multitude of pathogens. The Genpax bioinformatics platform, IDEM, uses phylogenomics to determine the relationships between isolates, which offers a novel and versatile solution to understanding single nucleotide differences across diverse species. Disease causing strains can be rapidly identified with high accuracy, resolution, and confidence with no previous bioinformatics training required.

Gold Standard Diagnostics**Booth 504**

2795 2nd St., Suite 300, Davis, CA 95618
530.759.8000 • www.gsdx.us

Gold Standard Diagnostics Inc. is a leading healthcare provider of diagnostic solutions with extensive experience in the clinical market. Our comprehensive diagnostic offering includes an innovative suite of automated platforms and a broad menu of assays. The BOLT™ and ThunderBolt®, fully automated, compact, and highly precise open ELISA systems. Our AIX1000® is a fully automated system for nontreponemal, RPR testing designed to simplify the processing, analysis, and results interpretation for RPR screens and titers.

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1676 International Dr., Suite 800, McLean, VA 22102
312.583.6882 • www.guidehouse.com

Guidehouse is a leading global provider of consulting services to the public sector and commercial markets providing broad capabilities in management, technology, and risk. The firm's Health segment integrates consulting and outsourcing expertise to help hospitals and health systems, government agencies, life sciences and retail companies, payers, and other organizations solve their most complex problems and deliver innovative services to their communities. With 19 KLAS #1 rankings, Guidehouse was ranked 2023's third largest healthcare IT consulting firm by Modern Healthcare.

Hamilton Company**Booth 105**

4970 Energy Way, Reno, NV 89502
775.858.3000 • www.hamiltoncompany.com

Hamilton Robotics is a global leader in liquid handling and laboratory automation technology, advancing the laboratory analytical sciences through reliability, performance, and flexibility. For more than 70 years, Hamilton has exceeded expectations.

HDR

1917 S. 67th St., Omaha, NE 68106
415.271.1934 • www.hdrinc.com

Booth 500
Platinum Member

Public Health is changing, with fundamental shifts in space requirements to support surges, new testing methodologies and equipment and the need to attract and retain qualified staff. HDR's team of planners, architects and engineers works together to develop award-winning solutions for public health facilities and scientific workplaces around the world. We use a practical, culturally sensitive, sustainable and incremental approach to develop local, regional and national laboratories to improve health outcomes.

HiComp Microtech

9920 Pacific Heights Blvd., Suite 150, San Diego, CA 92121
858.205.0202 • www.hicomp.us

Booth 420

Established in 2014, HiComp Microtech stands as a premier original design manufacturer specializing in advanced microfluidics products and laboratory consumables. Our solutions boost precision, efficiency, and reliability from prototyping to mass production. Quality, performance and affordability are our priorities.

HOK

10 S. Broadway, Suite 200, St. Louis, MO 63102
314.521.2000 • www.hok.com

Booth 106
Gold Member

HOK is a global provider of planning, design and delivery solutions for the built environment. Since the firm's founding in 1955, HOK has developed into one of the world's largest, most diverse and respected design practices. HOK's extensive experience in the design of public health and safety laboratories gives us unique insight into the operational and security requirements needed to protect public health and safety.

Hologic

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

Booths 300/302
Diamond Member

Hologic empowers people to live healthier lives everywhere, every day. With groundbreaking technology at the core, our innovations are designed to achieve exceptional clinical results, making it possible to detect, diagnose and treat illnesses and other health conditions earlier and more effectively. With instrumentation and assays rooted in science and driven by technology, Hologic helps healthcare professionals around the world diagnose and treat their patients with precision, certainty, and confidence.

iConnect Consulting

715 32nd Ave., San Francisco, CA 94121
415.735.5540 • www.iconnectconsulting.com

Booth 519

iConnect Lab Web Portal (LWP) is a secure cloud-based ETOR solution offering an intuitive, real-time interface to order tests, track progress and view results. Lab Web Portal is easy to integrate with healthcare providers, laboratory information systems and to share results with federal/state agencies. Additionally, iConnect has a vast laboratory and LIMS experience, and offers STARLIMS professional services to public health labs.

Illumina

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

Booth 600
Platinum Member

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.

IMMY

2701 Corporate Centre Dr., Norman, OK 73069
405.360.4669 • www.immy.com

Booth 707

IMMY is a US-based organization founded in 1979 with a focus in mycology. We manufacture, market, and distribute innovative lines of diagnostic tests and reagents for fungal infections. Our diagnostics are rapid, accurate, and affordable. Above all, IMMY's mission is to save lives and raise the standard of healthcare for patients all over the world.

InBios International, Inc.

307 Westlake Ave. N, #300, Seattle, WA 98109
206.326.5409 • www.inbios.com

Booths 101/103
Silver Member

At InBios we believe an accurate diagnosis is the first step to effective treatment. Our mission has been to develop innovative, superior quality, cost-effective diagnostics for emerging infectious diseases and biothreats. All products are manufactured in the USA, and many have FDA market approvals and CE Marking. InBios is also ready to partner with you to meet your assay development and contract manufacturing needs.

InductiveHealth

2870 Peachtree Rd. NW, #915-3304, Atlanta, GA 30305-2918
256.603.9084 • www.inductivehealth.com

Booth 514
Silver Member

Since our founding in 2013, InductiveHealth has become a leading provider in disease surveillance systems throughout the United States. InductiveHealth partners with federal, state, tribal, local and territorial jurisdictions to deliver unique and scalable disease surveillance solutions to fit our clients' needs and the ever-changing public health landscape.

InnovaPrep

132 East Main St., Drexel, MO 64742
816.619.3375 • www.innovaprep.com

Booth 319

InnovaPrep's FluidPrep™ and AirPrep™ tools provide exponential concentration of pathogens from air, surfaces, and liquids providing ultimate sensitivity for detection with any analysis method including PCR and NGS. Visit our booth for a demonstration of: the Concentrating Pipette™ used by dozens of APHL labs to concentrate pathogens from liquids, including wastewater; and the AirPrep Cub an indoor/outdoor high-flow, high-efficiency collector for all microbes from 0.01µm to 10µm. Each provide faster, easier workflows and same shift results.

INTEGRA Biosciences

22 Friars Dr., Hudson, NH 03051
603.578.5800 • www.integra-biosciences.com

Booth 501
Gold Member

INTEGRA is a leading provider of high-quality laboratory tools and consumables for liquid handling and media preparation. We are committed to fulfilling the needs of laboratory professionals in research, diagnostics, and quality control within the life sciences industry. Visit www.integra-biosciences.com to see our full line of innovative products.

J Michael Consulting

885 Woodstock Rd., Suite 430-151, Roswell, GA 30075-2274
770.309.3124 • www.jmichael-consulting.com

Booth 206
Silver Member

J Michael Consulting(JMC) bridges the public health informatics gap. Our experienced team specializes in innovative solutions tailored to clients' needs, ensuring success in modernizing health infrastructure. Experts in cloud environments, we excel in system migration and application development. Our dedicated team of professionals provides comprehensive support for diverse public health needs, contributing to global healthcare advancements. JMC is committed to excellence, delivering exceptional consulting and support services for a transformative impact on public health informatics.

Key Proteo

720 Broadway, Seattle, WA 98122
619.665.9030 (cell) • www.keyproteo.com

Booth 702
Silver Member

Key Proteo is on a mission to relieve suffering and save lives for patients and their families afflicted by rare but treatable genetic disorders through early screening. Many treatable genetic disorders are difficult to detect, but when found early, intervention can be enabled to help change the clinical course. With its initial focus on newborns, Key Proteo's dynamic proteomics-based platform can be adapted to screen for rare but treatable genetic disorders across other patient populations.

LabVantage

265 Davidson Ave., Suite 220, Somerset, NJ 08873
843.489.2220 • www.labvantage.com

Booth 414
Platinum Member

The LabVantage LIMS platform provides a Next-Generation Public Health LIMS for State and County PH labs and delivers productivity, security, quality, and regulatory compliance in a single solution that embeds a full-featured Electronic Laboratory Notebook (ELN), Laboratory Execution System (LES), and Scientific Data Management System (SDMS) for streamlined operations. Unlike outdated solutions, LabVantage LIMS also provides public health laboratorians with predictive and prescriptive analytics that can help translate scientific and external data into meaningful insights.

Microbiology International

5350 Partners Court, Frederick, MD 21703
301.662.6835 • www.800ezmicro.com

Booth 217

Stop by the Microbiology International booth, experts in chromogenic media and anaerobic microbiology. We will feature COLOREX chromogenic prepared plates, made with the original CHROMagar powder, our brand new jar gassing system the AtmoGen, that quickly creates anaerobic and microaerobic atmospheres, and the Innovaprep CP Select™ System, a rapid bio-concentrator that excels in recovering bacteria, parasites, molds, fungal spores and fragments, whole cells and viruses from large liquid volumes.

Microsensor Labs

2242 W. Harrison St., Suite 201, Chicago, IL 60612
312.358.6217 • www.microsensorlabs.com

Booth 601

Microsensor Labs develops novel technologies that address unmet needs in health care and biomedical fields. The company's product MagiCyte MB is a high-throughput automated system for rapid detection, isolation, enumeration and picking of microbial colonies (all from a standard 96-well microplate, not Petri dishes!). Load your samples, get the screening results and discrete colonies ready for downstream analyses. Please visit booth 601 to find out how MagiCyte MB fits your lab's workflow.

MRIGlobal

425 Dr. Martin Luther King Jr., Blvd., Kansas City, MO 64110
816.753.7600 • www.mriglobal.com

Booth 115**Silver Member**

MRIGlobal is committed to improving people's lives through scientific and engineering research, producing multidisciplinary and innovative solutions to important biological, chemical, and engineering challenges. Based in Kansas City, Missouri, we provide independent, customized clinical research support, infectious disease and biological threat agent detection, global biological engagement, in vitro diagnostics, and laboratory management and operations. Visit mriglobal.org to learn more.

National Jewish Health

1400 Jackson St., Denver, CO 80206
303.396.1669 • www.njlabs.org

Booth 520**Gold Member**

National Jewish Health, the nation's leading respiratory hospital, specializes in infectious disease diagnostics, including comprehensive TB and NTM susceptibility, subspeciation and molecular drug resistance testing within 48 hours of culture. Our CLIA, CAP, and ISO 15189 accredited laboratories are a resource for thousands of health care providers and public health agencies. Visit booth 520 or njlabs.org to learn more.

New England Biolabs

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

Booth 502**Gold Member**

For 50 years, New England Biolabs 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, synthetic biology, glycobiology, epigenetics and RNA analysis.

OpenELIS Foundation

5231 McIntosh Way, Egg Harbor, WI 54209
478.253.3018 • www.openelis.org

Booth 205**Silver Member**

The OpenELIS Foundation is a 501(c)(3) nonprofit corporation whose mission is to provide open source software and services to public health laboratories that will meet the demands of today's responsive public health laboratory. OpenELIS is designed to be an enterprise solution that scales to the needs of any public health laboratory, from small to large, supports multiple laboratory locations, and handles the needs of clinical, environmental, animal and newborn screening testing within a single system.

Oxford Nanopore Technologies

101 6th Ave., New York, NY 10013
610.806.6640 • www.nanoporetech.com

Oxford Nanopore Technologies aims to bring the widest benefits to society through enabling the analysis of anything, by anyone, anywhere. Perform comprehensive analyses of microbial samples using nanopore-based sensing technology, developed for real-time, accurate, accessible, and scalable DNA and RNA analysis — whether at the bench or in the field.

PacBio

1305 O'Brien Dr., Menlo Park, CA 94025
650.521.8000 • www.pacb.com

Our revolutionary sequencing technologies combine the completeness of long reads with the accuracy of short reads to provide the most comprehensive view of genomes, transcriptomes, and epigenomes.

Primary.Health

595 Pacific Ave., San Francisco, CA 94133
612.440.5337 • www.primary.health

Primary.Health is a tech company and provider group offering a platform for managing testing and vaccination programs. Its software facilitates end-to-end interoperability and program management, including ETOR, patient/provider portals, registration, scheduling, check-in, results reporting, and analytics. Designed for public health agencies, healthcare providers, employers, and organizations, it streamlines technology for preventive and emergency response efforts, enhancing access to testing, wellness, and vaccination services.

Promega

2800 Woods Hollow Rd., Madison, WI 53711
813.482.3984 • www.promega.com

Promega Corporation excels in providing innovative solutions and technical support to the life sciences industry. With a portfolio of over 4,000 products, it supports diverse areas from cell biology to molecular diagnostics. Emphasizing workflow standardization and scalable flexibility, the company caters to a variety of clinical and environmental public health labs in vital capacities. Promega is headquartered in Madison, WI, USA, and has branches in 16 countries and over 50 global distributors.

Puritan Medical Products Company

31 School St., Box 149, Guilford, ME 04443
207.876.3311 • www.purtanmedproducts.com

Puritan Medical Products Co. is a family-owned American company known worldwide as the trusted manufacturer of single-use products for controlled environments, diagnostics and specimen collection, environmental, forensics, genetics, medical and microbiology media industries. Puritan is FDA-registered and ISO-certified. Its products help customers collect, analyze, and transport specimens with the utmost confidence in the products' clinical integrity. Puritan's headquarters are in Guilford, ME.

Booth 518**Silver Member****Booth 416****Platinum Member****Booth 703****Gold Member****Booths 200/202****Silver Member****Booth 215****Silver Member**

QIAGEN

19300 Germantown Rd., Germantown, MD 20874
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.

Booths 315/317
Diamond Member

QuidelOrtho

9975 Summers Ridge Rd., San Diego, CA 72121
 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.

Booth 306
Platinum Member

Randox Laboratories

55 Diamond Rd., Crumlin, Co. Antrim, BT29 4QY United Kingdom
 44.028.9442.2413 • www.randox.com

Established in 1982, we at Randox are dedicated to improving healthcare worldwide with the use of innovative diagnostic technologies. As a world leader in clinical healthcare, our expertise and product portfolio have assisted laboratories across the world in improving global health and saving lives.

Booth 704

Redbud Labs, Inc.

400 Park Offices Dr., Suite 301, Durham, NC 27709
 919.516.6124 • www.redbudlabs.com

Redbud Labs uses microfluidics to power the world's smallest automated sample prep platform, which we call NAXtract. NAXtract is used by Public Health Labs to purify RNA/DNA from clinical samples and isolates for rapid diagnostics (qPCR) and genomic surveillance (NGS). NAXtract is the only automation platform that fits in a biosafety cabinet, revolutionizing high containment work. With applications in virology, bacteriology, and select agents, NAXtract is available for a variety of infectious disease workflows.

Booth 316
Silver Member

Restek Corporation

110 Benner Circle, Bellefonte, PA 16823
 814.353.1300 • www.restek.com

Chromatography is what we do and who we are. We are an independent, international team of employee-owners serving analysts with unrivaled Plus 1 service, applications, and expertise. From LC and GC columns to sample preparation, standards to accessories, Restek is your first and best choice. Restek is Pure Chromatography.

Booth 720

Retractable Technologies, Inc.

511 Lobo Lane, Little Elm, TX 75068
 888.703.1010 • www.retractable.com

Through innovation, education, and the development of safe and reliable money-saving medical devices, Retractable Technologies, Inc. strives to be a catalyst in reducing the worldwide spread of infectious disease.

Booth 218

Revvity

68 Elm St., Hopkinton, MA 01748
800.762.4000 • www.revvity.com

Revvity provides health science solutions, technologies, expertise, and services that deliver complete workflows from discovery to development, and diagnosis to cure. Revvity is pushing the limits of what's possible in healthcare, with specialized focus areas in translational multi-omics technologies, biomarker identification, imaging, prediction, screening, detection and diagnosis, informatics, and more. With a robust global network and localized agility, we serve a diverse range of organizations from pharmaceutical and biotech, to clinical labs, academia, and governments.

Booths 719/721**Diamond Member****Roche Diagnostics**

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

Roche is dedicated to enhancing population health by advancing innovation and quality diagnostics. Our solutions are designed to ensure broad accessibility, helping laboratories address diagnostic challenges no matter the size, workforce, or testing requirements — both presently and in readiness for future emergency responses. With our unwavering commitment to excellence, we empower laboratories to confidently pursue public health goals of fostering healthy individuals, nations, and communities.

Booths 403/405/407**Diamond Member****Ruvos LLC**

2252 Killearn Center Blvd., Tallahassee, FL 32309
850.672.2086 • www.ruvos.com

Unlocking Potential: Your Data, Our Innovation. Join Ruvos in a transformative journey of innovation. We combine strategic expertise and advanced solutions to redefine data's potential, creating impactful technology-driven outcomes. Visit www.ruvos.com, contact hello@ruvos.com, or explore our AWS Marketplace solutions. Together, let's achieve remarkable advancements and shape a world driven by informed decisions and cutting-edge technology.

Booth 400**Diamond Member****SCC Soft Computer**

5400 Tech Data Dr. Clearwater, FL 33760
727.789.0100 • www.softcomputer.com

SCC Soft Computer is a leading LIS vendor at the forefront of laboratory, genetics, outreach, and blood services software development. Committed to supplying innovative technologies to meet the needs of every client, SCC offers comprehensive suites of fully integrated, Web-enabled laboratory and genetic information management system solutions. The world's largest LIS production house, SCC Soft Computer has designed, developed, delivered, implemented, and supported robust clinical information management system solutions for the healthcare industry since 1979.

Booth 102

SEAL Analytical

6501 W. Donges Bay Rd., Mequon, WI 53092
262.241.7900 • www.seal-analytical.com

Booth 607

SEAL Analytical, a Porvair company brand, is a world leader in the design, development, and manufacture of automated Discrete Analyzers, Continuous Segmented Flow Analyzers and Sample Preparation equipment specifically for use in environmental applications. SEAL analyzers are widely acknowledged as the best-in-class and instrument of choice for monitoring nutrients in water & wastewater, seawater, soils & plant materials, as well as the quality control of industrial products, fertilizers and tobacco.

Sebia, Inc.

1705 Corporate Dr., Suite 400, Norcross, GA 30093
770.446.3707 • www.sebia.com

Booth 616

Sebia is a global specialty IVD company focused on protein analysis. The new CAPILLARYS 3 DBS* instrument utilizes Sebia's proprietary and best-in-class capillary electrophoresis separation technology to maximize resolution for newborn Hemoglobin (Hb) disorder screening and confirmation. By offering NBS labs a fully automated, walkaway platform, Sebia seeks to improve NBS laboratory workflows, freeing up valuable time for labs to focus on value-added tasks. *CAPILLARYS 3 DBS not currently available for sale in the USA.

Seegene USA, Inc.

3 Burroughs, Suite 292, Irvine, CA 92618
562.522.1036 • www.seegeneus.com

Booth 117
Silver Member

Seegene USA is a subsidiary of Seegene, Inc., a leading molecular diagnostics company based in South Korea. Seegene specializes in developing multiplex molecular assays and automated solutions for laboratories in the US. Seegene's assays offer a user-friendly workflow and comprehensive molecular PCR solutions that enable fact-based research. Our assays use advanced multiplexing technology to identify multiple targets in a single reaction with a short turnaround time.

Standard BioTools

2 Tower Place, Suite 2000 • South San Francisco, CA 94080
650.266.6000 • www.standardbio.com

Booth 107

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 through the delivery of consistent, reliable and repeatable results.

STARLIMS

4000 Hollywood Blvd., Suite 333 South, Hollywood, FL 33021
954.416.1588 • www.starlims.com

Booth 214

With nearly four decades of experience, STARLIMS is Public Health's partner of choice to help protect the health of the population. Trusted by 30+ district, regional, and national public health institutions, STARLIMS is committed to providing quality products and services that enable public health labs to stay ahead of potential global health risks. As a recognized leader in enterprise informatics solutions, STARLIMS is here to help you drive laboratory excellence.

STAT Courier Service, Inc.**Booth 203**

16 Hawk Ridge Dr., Lake St. Louis, MO 63367
888.592.7828 • www.stat-courier.com

STAT Courier Service, Inc. connects communities with logistical solutions to drive better healthcare outcomes for all citizens through nationwide medical courier services for clinical and environmental specimens in addition to newborn screening tests and medical supplies.

Streck**Booth 314**

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

Gold Member

Established in 1971, Streck develops quality control and sample stabilization products that help clinical and research laboratories worldwide feel confident in the validity of their results. Streck products are manufactured in La Vista, Nebraska and delivered to over 13,000 labs in 65 countries around the world.

Tecan**Booth 204**

900 Chesapeake Dr., Redwood City, CA 94063
650.313.5464 • www.tecan.com

Silver Member

Tecan is a leader in providing complete genomic solutions. Leveraging expertise in automation and chemistry from NuGEN Technologies, Tecan is at the forefront of NGS library preparation for NGS from a wide array of challenging sample types. Combining reagents specifically designed for challenging samples with our automation capabilities, ensures seamless library preparation and quality control, saving time, and providing consistent, sequencing-ready libraries across diverse research applications.

Theiagen Genomics**Booth 401**

1745 Shea Center Dr., Suite 400, Highlands Ranch, CO 80129
720.768.4118 • www.theiagen.com

Platinum Member

Theiagen Genomics is a global company focused on the transformation of public health and infectious disease surveillance through the innovative implementation of Next-Generation Sequencing ("NGS") and bioinformatics technologies. Specializing in secure, open source, cloud-based solutions for public health, Theiagen offers development, training, support, analysis, and validation services for comprehensive genomic epidemiology solutions.

Thermo Fisher Scientific**Booths 305/307**

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

Diamond Member

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.

TubeWriter, LLC**Booth 718**

6500 River Place Blvd., Building 2, Suite 100, Austin, TX 78730
510.249.9300 • www.tubewriter.com

For laboratories that perform medium to high-throughput applications struggling with manual labeling or paper labels, The TubeWriter labeling systems print directly on labware like tubes, vials, and plates. The labels are in human-readable and barcode formats using UV-curable ink cartridges that withstand extreme lab conditions. Unlike competitors, The TubeWriter labeling systems can be configured to print directly on the caps and unique labware used in proprietary systems.

Twist Bioscience**Booth 419**

681 Gateway Blvd., South San Francisco, CA 94080
760.573.3233 • 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 is leveraging its unique technology to manufacture a broad range of synthetic DNA-based products, including tools for next-generation sequencing (NGS) preparation.

University of South Florida, College of Public Health**Booth 418**

13201 Bruce B Downs Blvd., MDC 56, Tampa, FL 33612
813.974.6985 • www.publichealth.usf.edu

The highest ranked public health graduate school in Florida and #22 nationally (USNWR, 2023-2024), the USF College of Public Health offers the Doctor of Public Health in public health and clinical laboratory science and practice. This unique program is ideal for working professionals who aspire laboratory leadership. More at <https://health.usf.edu/publichealth/apply/doctoral/drph-phclsp>.

Vela Diagnostics**Booth 706**

353C Route 46 West, Suite 250, Fairfield, NJ 07004
877.593.7528 • www.veladx.com

Vela Diagnostics is a worldwide supplier of integrated life sciences and diagnostic solutions that help provide customers with solutions for real-time PCR and Next-Generation Sequencing. Established in 2011 with its headquarters in Singapore, Vela Diagnostics' reliable platforms and solutions standardize testing, improve workflow and help to reduce cost for optimal efficiency across laboratories of all sizes.

Verily**Booth 621**

269 E. Grand St., South San Francisco, CA 94080
www.verily.com

Waters Corporation

34 Maple St., Milford, MA 01757
508.244.8478 • www.waters.com

Booth 207
Platinum Member

Waters Corporation is the world's leading specialty measurement company focused on improving human health and well-being through the application of analytical technologies and industry leading scientific expertise. With our portfolio of separations and analytical science in Liquid chromatography, Gas Chromatography, and Mass Spectrometry, along with chemistry products, laboratory informatics, and professional services, we support our customers in public health protection and in assuring the safety of the world's food and water supplies.

World BioHazTec

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

Booth 221

Drawing on over 25 years of multinational expertise, World BioHazTec offers specialized consulting for laboratory design, construction, commissioning, and annual certification. Our skilled scientific and engineering team comprehends the scientific nuances driving laboratory functionality, translating user needs into precise design solutions. As your trusted consultant, we optimize energy efficiency, resolve HVAC issues, and ensure secure and sustainable laboratory operations. Plus, we provide professional development training and expert guidance on Federal Select Agent Program compliance.

WSLH Proficiency Testing

2601 Agriculture Dr., Madison, WI 53718
800.462.5261 • www.wslhpt.org

Booth 701

With WSLH Proficiency Testing, clinical laboratories get reliable, affordable, and easy-to-use proficiency testing products with rapid access to results. As part of a national public health laboratory, WSLH PT has been a trusted name among laboratory professionals since 1966. Learn more and connect with our dedicated team of technical experts today: wslhpt.org.

YourBio Health

200 Boston Ave., #3700, Medford, MA 02155
617.547.7246 • www.yourbiohealth.com

Booth 716

YourBio Health is an innovative medical device company advancing a disruptive, cutting-edge approach to the way we draw blood. YourBio Health (formerly SeventhSense Biosystems) designed and developed TAP®, the world's first push-button blood collection device that makes the blood process simple, convenient, and more comfortable. Its portfolio includes the FDA cleared TAP® micro select.

Zymo Research Corporation

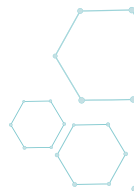
17062 Murphy Ave., Irvine, CA 92614
949.679.1190 • www.zymoresearch.com

Booth 515
Silver Member

Zymo Research is a globally established biotechnology company and industry leader in the fields of epigenetics, microbiomics and the emerging Next-Gen Sequencing space. Even with the most technologically advanced products in the industry, everything is driven by the fundamental belief that "the beauty of science is to make things simple."



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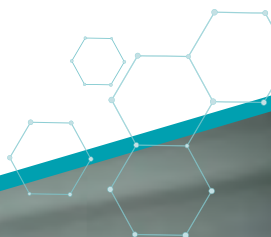
The Association of Public Health Laboratories (APHL) is thrilled to officially launch the APHL Learning Center (ALC) with over 100 professional development opportunities and growing!

The ALC is APHL's new learning management system that offers high quality educational activities on a variety of topics in convenient formats, from laboratory-specific resources to those serving the broader public health community. You can search for and enroll in training, complete evaluations and manage your certificates all in one place.

Begin by browsing the course catalog to view all available trainings. When you are ready to enroll, use your APHL credentials to sign in and access your training. If you're new to APHL, create a free account to enroll in our professional development opportunities.

**Take advantage of the
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learn.aphl.org



POSTERS

Poster abstracts may be found on the conference website www.aphl.org/AC or by scanning the QR code to the right. Posters can be viewed in the exhibit hall during exhibit hall hours on Monday, Tuesday and Wednesday, May 6–8.



full poster
abstracts

**Posters that took part in the Rapid Poster Presentations sessions.*

Poster #1

Alinity m You-Create Lab-Developed Test for *C. auris* Using Commercially Available Reagents

Presenter: Mark Sasaki, Abbott Molecular, mark.sasaki@abbott.com

Poster #2

Alinity m You-Create Lab-Developed Tests for *Lymphogranuloma venereum* and *Treponema pallidum* Using Commercially Available Reagents

Presenter: Mark Sasaki, Abbott Molecular, mark.sasaki@abbott.com

Poster #3

Bolstering National Surveillance Through The Influenza Sequencing Center Expansion

Presenter: Samuel Abrams, Association of Public Health Laboratories, samuel.abrams@aphl.org

Poster #4*

Retention and Turnover: An Analysis of Workforce Dynamics in Public Health Laboratories Pre- and Post-Pandemic

Presenter: Sudaba Parnian Ahmadi, Association of Public Health Laboratories, sudaba.parnian@aphl.org

Poster #5

Empower, Equip, Excel: Training Opportunities for Biosafety Professionals

Presenter: Stormy Chester, Association of Public Health Laboratories, stormy.chester@aphl.org

Poster #6

Recruit and Retain Laboratorians with Loan Forgiveness

Presenter: Amanda Cosser, Association of Public Health Laboratories, amanda.cosser@aphl.org

Poster #7

Examining the Impact of Outbreaks on Public Health Infrastructure: A Comparative Analysis

Presenter: Isaac Eaves, Association of Public Health Laboratories, isaac.eaves@aphl.com

Poster #8*

Modernizing Electronic Laboratory Reporting

Presenter: Millie Malai, AP Association of Public Health Laboratories, millie.malai@aphl.org

Poster #9

Piloting the ISO35001 Standard: Cruising towards Biorisk Management

Presenter: Michael Marsico, Association of Public Health Laboratories, michael.marsico@aphl.org

Poster #10**Improving Laboratory Testing Accuracy Through In-House Calibration and Accreditation to ISO15189: The Impact of Operationalizing Calibration Centers in Zambia**

Presenter: Matthew McCarroll, Association of Public Health Laboratories, matthew.mccarroll@aphl.org

Poster #11**APHL Recommendations for Expanding and Improving Per- and Poly- Alkyl Substances (PFAS) Testing**

Presenter: Paul Moyer, Association of Public Health Laboratories, pfmeoh@gmail.com

Poster #12**Public Health Laboratory Fellowship Program: An APHL-CDC Initiative**

Presenter: Rob Nickla, Association of Public Health Laboratories, robert.nickla@aphl.org

Poster #13**Recruiting Tomorrow's Leaders: Highlighting the Significance of Local Outreach Initiatives Through Partnerships Between Public Health Laboratories and Academic Institutions**

Presenter: Dana Powell Baker, Association of Public Health Laboratories, dana.baker@aphl.org

Poster #14**Solutions to Address Declining State and Local Radiochemistry Laboratory Workforce Trends**

Presenter: Royce Riessen, Association of Public Health Laboratories, royce.riessen@aphl.org

Poster #15**A Year in Review: A Technical Look at the AIMS ETOR Intermediary in Action**

Presenter: Rachel Shepherd, Association of Public Health Laboratories, rachel.shepher@aphl.org

Poster #16**APHL Committee Renews Position Statement and Receives Largest Membership Response to Date!**

Presenter: Jill Sutton, Association of Public Health Laboratories, jill.sutton@aphl.org

Poster #17**Developing Threat Agnostic Sequencing Capabilities and the Utility in Public Health Laboratories**

Presenter: Tyler Wolford, Association of Public Health Laboratories, tyler.wolford@aphl.org

Poster #18**AIMS: Foundational Infrastructure for Public Health**

Presenter: Rachel Shepherd, Association of Public Health Laboratories, rachel.shepherd@aphl.org

Poster #19**INSPIRE: Readiness — Enhancing State Infectious Disease Preparedness and Response Capabilities for Future Threats**

Presenter: Sidnie Christian, ASTHO, schristian@astho.org

Poster #20***In-Line Sodium Sulfate Drying to Improve Reduced Sample Volume Extraction Efficiency for US EPA Method 1664B**

Presenter: Deanna Bissonnette, Biotage, deanna.bissonnette@biotage.com

Poster #21**Automated Workflow for High-throughput PFAS Sample Preparation for Solid Matrices Following EPA Method 1633**

Presenter: Evan Walters, Biotage, evan.walters@biotage.com

Poster #22**New North Dakota State Lab — A Critical Piece of Public Health Infrastructure**

Presenter: Nathan Roisen, BWBR, nroisen@bwbr.com

Poster #23**Expanding PAH Extraction Methods for Exposure Knowledge in Human Blood Serum**

Presenter: Eimi Percival, California Department of Toxic Substance and Control, eimi.percival@dtsc.ca.gov

Poster #24***Laboratory Process Improvement Through Implementation of a Hybrid *Salmonella* Serotyping Workflow**

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

Poster #25***Genomic Characteristics of Long-term Infections in California COVIDNet Data**

Presenter: John Bell, California Department of Public Health, john.bell@cdph.ca.gov

Poster #26**Analysis of Clinical, Demographic and Genomic SARS-CoV-2 Data Reveals Similar Illness Severity Across Variants**

Presenter: Shiffen Getabecha, California Department of Public Health, shiffen.getabecha@cdph.ca.gov

Poster #27**Characterization of a Real-time RT-PCR Assay for New World Orthohantavirus Detection**

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

Poster #28**Rapid Detection of Carbapenemase Activity in Enterobacterales, *Pseudomonas aeruginosa* and *Acinetobacter baumannii* Using MALDI-TOF MS**

Presenter: Joseph Lau, California Department of Public Health, joseph.lau@cdph.ca.gov

Poster #29**A Database of Mutations Is Not Enough! Tailoring a Next Generation Sequencing Workflow for TB Drug Resistance Detection**

Presenter: Matthew Sylvester, California Department of Public Health, matthew.sylvester@cdph.ca.gov

Poster #30**Introducing an Excel-Based Laboratory Cost Accounting Tool and Training for Public Health Laboratories**

Presenter: Bishwa Adhikari, Centers for Disease Control and Prevention, bia6@cdc.gov

Poster #31***Echoing Biosafety Around the World — Implementation of a Global Biosafety Community of Practice**

Presenter: Aufra Araujo, Centers for Disease Control and Prevention, aka8@cdc.gov

Poster #32**Identification of a Commensal *Neisseria* sp. Carrying the Gonococcal Diagnostic Signature DR-9**

Presenter: Julio Ayala Figueredo, Centers for Disease Control and Prevention, pyd0@cdc.gov

Poster #33**Evaluation of Aztreonam-Avibactam MIC Test Strips Against Reference Broth Microdilution for Enterobacterales**

Presenter: Rocio Balbuena, Centers for Disease Control and Prevention, nyq0@cdc.gov

Poster #34**15 Years of CaliciNet: Norovirus Genotype in the United States, 2009–2024**

Presenter: Leslie Barclay, Centers for Disease Control and Prevention, gvm3@cdc.gov

Poster #35**A Curated Panel of *Neisseria gonorrhoeae* Control Strains for Antimicrobial Susceptibility and Proficiency Testing**

Presenter: Myriam Belanger, Centers for Disease Control and Prevention, bjf0@cdc.gov

Poster #36**Evaluation of Comprehensive Risk Assessment Processes in the Virginia Division of Consolidated Laboratory Services**

Presenter: Courtnee' Bell, Centers for Disease Control and Prevention, tqa7@cdc.gov

Poster #37***Optimization of Specimen Submission for Patients with Known Tuberculosis in the State of Georgia**

Presenter: Blake Bertrand, Centers for Disease Control and Prevention, uqn7@cdc.gov

Poster #38 – Withdrawn***Bordetella pertussis* Exhibits Genomic Diversity within Patients and Laboratory Culture**

Presenter: Emilie Bouda, Centers for Disease Control and Prevention, tqi7@cdc.gov

Poster #39***The Use of Wastewater Surveillance for the Detection and Monitoring of SARS-CoV-2 Variants**

Presenter: Rakin Choudhury, Centers for Disease Control and Prevention, uec4@cdc.gov

Poster #40**Evaluation of Laboratory-Based Respiratory Virus Surveillance, Public Health Interoperability Project PHLIP, 2018–2023**

Presenter: Kaitlyn Ciampaglio, Centers for Disease Control and Prevention, lhq7@cdc.gov

Poster #41**Implementation of Nextstrain and MicrobeTrace Pipeline for Mpox Genomic Surveillance and Rapid Public Health Action**

Presenter: Roxana Cintron, Centers for Disease Control and Prevention, vrw7@cdc.gov

Poster #42**Bio-Khoj: Coordinated Sentinel Surveillance and Discovery for Emerging Human Pathogens**

Presenter: Sean Courtney, Centers for Disease Control and Prevention, xcz1@cdc.gov

Poster #43**Molecular Characterization of New Delhi Metallo-beta-lactamase Producing Carbapenem-resistant Enterobacterales in 2017–18 Versus 2022 Collections from the Antimicrobial Resistance Laboratory Network**

Presenter: Trevor Darby, Centers for Disease Control and Prevention, tqg0@cdc.gov

Poster #44**Optimization and Utilization of an RT-PCR Based Method for the Detection of West Nile Virus in Sentinel Chickens**

Presenter: Peter Dumoulin, Centers for Disease Control and Prevention, tqa9@cdc.gov

Poster #45**Genome Sequences of *Listeria ivanovii* from Surveillance of Cases Reported in Humans, 1987–2018**

Presenter: Zachary Ende, Centers for Disease Control and Prevention, oit8@cdc.gov

Poster #46***Past, Present and Future of Public Health Laboratory Information Systems**

Presenter: Alyssa Harvey, Centers for Disease Control and Prevention, thy8@cdc.gov

Poster #47**Development of a Protocol and Data Set for Validation of *Neisseria gonorrhoeae* (Ng) Genome Profiler and Typing Tool**

Presenter: Katherine Hebrank, Centers for Disease Control and Prevention, uce1@cdc.gov

Poster #48**Performance Evaluation of the Streck ARM-D® TEM/SHV/GES Kit**

Presenter: Justina Ilutsik, Centers for Disease Control and Prevention, nkl9@cdc.gov

Poster #49**Support for COVID-19 Testing to Reopen and Keep Schools Operating Safely**

Presenter: Kristine Kines, Centers for Disease Control and Prevention, lxu2@cdc.gov

Poster #50***Establishing Surge Capacity Infrastructure for Whole Genome Sequencing During Healthcare-associated Infection Outbreaks**

Presenter: Frances Knight, Centers for Disease Control and Prevention, uqo5@cdc.gov

Poster #51**Genetic Diversity in *Salmonella enterica* in Outbreaks of Foodborne and Zoonotic Origin**

Presenter: Rebecca Lindsey, Centers for Disease Control and Prevention, wmi1@cdc.gov

Poster #52**Vaccine-induced Humoral Immunity Against Influenza Viruses in Healthy Weight to Morbidly Obese Healthcare Personnel Aged 18–64 during the 2018–19 Season**

Presenter: Sidarth Lingatlu, Centers for Disease Control and Prevention, sidlingatlu@gmail.com

Poster #53**Development of a Multiplex Real-Time PCR Assay to Detect Herpes Simplex Virus and Syphilis from Genital Ulcer Swabs**

Presenter: Katie Margulieux, Centers for Disease Control and Prevention, tqe6@cdc.gov

Poster #54**Evaluation of a Tiled Amplicon-Based Approach for Whole Genome Sequencing of Respiratory Syncytial Virus — Wisconsin, 2023**

Presenter: Matthew Martin, Centers for Disease Control and Prevention, tqe7@cdc.gov

Poster #55**Using Secondary Analyses to Identify Aberrant Test Positivity Rates on Rapid Molecular Platforms — Wisconsin**

Presenter: Matthew Martin, Centers for Disease Control and Prevention, tqe7@cdc.gov

Poster #56**Viral Pathogen Testing Validation in Wastewater Using Digital Polymerase Chain Reaction on the QIAcuity Four**

Presenter: Eileen Moran, Centers for Disease Control and Prevention, tqe9@cdc.gov

Poster #57***Evaluating Bioinformatics Approaches for Fungal Pathogen Detection with Targeted Metagenomics**

Presenter: Zachary Mudge, Centers for Disease Control and Prevention, xnv5@cdc.gov

Poster #58**Implementation of Next Generation Sequencing at City of Milwaukee Beaches for Fecal Source Tracking**

Presenter: Robert Murphy, Centers for Disease Control and Prevention, tqf0@cdc.gov

Poster #59**Establishing a Minimum Laboratory Data Set for Data Sharing with CDC**

Presenter: Desiree Mustaquim, Centers for Disease Control and Prevention, Email: dwc6@cdc.gov

Poster #60**New Data on Enumeration, Characterization and Supply-Demand Projections of the Laboratory Workforce**

Presenter: Renee Ned-Sykes, Centers for Disease Control and Prevention, rin1@cdc.gov

Poster #61**Analysis of SARS-CoV-2 Omicron Spike Protein Structure by Advanced Mass Spectrometry**

Presenter: Lindsay Nyhoff, Centers for Disease Control and Prevention, uqo8@cdc.gov

Poster #62**LRN-C Moving Forward: A Comprehensive Approach to Laboratory Testing Capacity**

Presenter: Jordan Okoye, Centers for Disease Control and Prevention, sfa0@cdc.gov

Poster #63**Whole Genome Sequencing of *Treponema pallidum* Strains from Patients with Syphilis**

Presenter: Allan Pillay, Centers for Disease Control and Prevention, apillay@cdc.gov

Poster #64**Building Capacity for Rapid *Neisseria gonorrhoeae* Gradient Strip Antimicrobial Susceptibility Testing at State and Local Public Health Labs with SHARP**

Presenter: Jennifer Reimche, Centers for Disease Control and Prevention, nk3@cdc.gov

Poster #65**Development of a Luciferase-based Assay for the Detection of Mpox Neutralizing Antibody in Human Serum**

Presenter: Sergio Rodriguez, Centers for Disease Control and Prevention, pze7@cdc.gov

Poster #66**Fungal Detection, Coming to a Lab Near You**

Presenter: Roxana Rodriguez Stewart, Centers for Disease Control and Prevention, qmd7@cdc.gov

Poster #67***Effects of Culture Independent Diagnostic Testing on Enteric Disease Surveillance — Wisconsin, 2018–2023**

Presenter: Annie Sanchez, Centers for Disease Control and Prevention, uqp0@cdc.gov

Poster #68***Use of Training and Functional Drills to Improve Response to Medical Emergencies in the Laboratory**

Presenter: Sabrina Schatzman, Centers for Disease Control and Prevention, qan6@cdc.gov

Poster #69**Viral Hemorrhagic Fever Inactivation Occurs with Detergent and Heat**

Presenter: Ninecia Scott, Centers for Disease Control and Prevention, tqf1@cdc.gov

Poster #70***Laboratory Evaluation of Three Rapid Syphilis Tests Using Sera from a High Prevalence Population of MSM and TGW**

Presenter: Mayur Shukla, Centers for Disease Control and Prevention, iun9@cdc.gov

Poster #71**Enhancing Whole-Genome Sequencing Accuracy and Consistency Through External Quality Assessment in the Surveillance of *Neisseria gonorrhoeae***

Presenter: Amanda Smith, Centers for Disease Control and Prevention, rqq8@cdc.gov

Poster #72**Development of an Enzyme Linked Immunosorbent Assay (ELISA) for Detection of *B. pseudomallei* Specific Antibody in Human Sera**

Presenter: Xiaoling Tang, Centers for Disease Control and Prevention, gqi3@cdc.gov

Poster #73**Performance Evaluation of Four Multiplex PCR Assays for the Diagnosis of Genital Ulcer Disease**

Presenter: Jeronay Thomas, Centers for Disease Control and Prevention, Tqf2@cdc.gov

Poster #74**Validation of Hologic® Specimen Transport Media as a Matrix Using the BioFire® Respiratory Panel**

Presenter: Jessica van Loben Sels, Centers for Disease Control and Prevention, tri2@cdc.gov

Poster #75***Mycoplasma genitalium* Diagnosis Prevalence Among Persons Seeking Treatment in New York City Sexual Health Clinics During June 2022 – March 2023**

Presenter: Elizabeth Watts, Centers for Disease Control and Prevention, tqf6@cdc.gov

Poster #76**Immunohistochemical Evaluation of Antigen Stability in Autopsy Tissues Infected with Free-living Amoebae**

Presenter: Andres Wong-Sam, Centers for Disease Control and Prevention, pqk7@cdc.gov

Poster #77***Evaluating the Suitability of the Seegene Novaplex PCR System for Respiratory Pathogen Surveillance in Minnesota**

Presenter: Emily Yarosz, Centers for Disease Control and Prevention, emily.yarosz.contractor@state.mn.us

Poster #78**Advancing *Legionella* Surveillance: Utilizing Nanotrap Particles for Concentration and Monitoring of Waterborne Pathogens**

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

Poster #79***Capture and Concentrate Parasites and Yeast Using Nanotrap Particles**

Presenter: Daniel Goldfarb, Ceres Nanosciences, dgoldfarb@Ceresnano.com

Poster #80**Operationalization of a Novel Indoor Air Surveillance Program in Chicago**

Presenter: Kendall Anderson, Chicago Department of Public Health, kendall.anderson@cityofchicago.org

Poster #81***Using Wastewater Surveillance for Mpox as a Complement to Traditional Case-Based Reporting — Chicago, March–June 2023**

Presenter: Dorothy Foulkes, Chicago Department of Public Health, dorothea.foulkes@cityofchicago.org

Poster #82**Leveraging Existing Wastewater Surveillance Infrastructure for Short-term Poliovirus Surveillance — Chicago, March–July 2023**

Presenter: Alyse Kittner, Chicago Department of Public Health, alyse.kittner@cityofchicago.org

Poster #83**Correlation of SARS-CoV-2 Levels in Wastewater with Clinical Cases and Hospitalizations Across Different Lineage Periods — Chicago [February 2022 – July 2023]**

Presenter: Colin Korban, Chicago Department of Public Health, colin.korban@cityofchicago.org

Poster #84**Sentinel Laboratory Training, Outreach and Preparedness: Houston, Texas and Surrounding Counties**

Presenter: Linda Galicia, City of Houston, Linda.galicia@houston.tx.gov

Poster #85**Selecting a Portable Incubator to Aid Partners in *Neisseria gonorrhoeae* Collection for Antibiotic Susceptibility Testing**

Presenter: Suzanna Budiono, City of Milwaukee Health Department Laboratory, sbudio@milwaukee.gov

Poster #86**Comparison of SARS-CoV-2 dPCR Targets in Wastewater-Based Epidemiology**

Presenter: Zachary Scott, City of Milwaukee Health Department Laboratory, zscott@milwaukee.gov

Poster #87***Comparison of Culture-based, qPCR and dPCR Methods for *E. coli* Detection at Three Milwaukee Beaches**

Presenter: Julia Zimmer, City of Milwaukee Health Department Laboratory, jzimmer@milwaukee.gov

Poster #88**Developing an Effective Environmental Laboratory Workforce**

Presenter: Hunter Adams, City of Wichita Falls, hunter.adams@wichitafallstx.gov

Poster #89**Automating Genomic Wastewater Surveillance for Efficient Pathogen Detection and Monitoring in the Population**

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

Poster #90**Modernization of PLR Code Set to Support Public Health**

Presenter: Sarah Brumley, Clinical Architecture, sarah_brumley@clinicalarchitecture.com

Poster #91**Optimizing Whole Genome Sequencing of Clinical RSV**

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

Poster #92**Applying Genomic Epidemiology to Link Inter-state Hospital Outbreaks of *Burkholderia multivorans***

Presenter: Samuel Baird, Colorado Department of Public Health and Environment, sam.baird@state.co.us

Poster #93***PFAS Detection In Frozen Water**

Presenter: John Fennessey, Colorado Department of Public Health and Environment, john.fennessey@state.co.us

Poster #94**Tiled Amplicon Primer Development and Optimization for Sequencing of *Influenza hemagglutinin (HA) Gene Segment in Wastewater***

Presenter: Molly Hetherington-Rauth, Colorado Department of Public Health and Environment, molly.hetheringtonrauth@state.co.us

Poster #95 – Withdrawn**Evaluation of Different Extraction Methods on Stool and Enrichment Broths using Highly Multiplexed Amplicon Sequencing of *Salmonella***

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

Poster #96**Confirming Subtype Specificity in Influenza-positive Wastewater Samples Through Subtyping PCR and Sequencing**

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

Poster #97**Evaluation of RSV Genomic Diversity and Variant Prevalence Across Three Respiratory Seasons in Pediatric Cases in Colorado**

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

Poster #98**Detection and Tracking of Novel and Recurrent SARS-CoV-2 Mutations in Wastewater Can Enhance Lineage-based Wastewater and Clinical Surveillance Efforts**

Presenter: Arianna Smith, Colorado Department of Public Health and Environment,
arianna.smith@state.co.us

Poster #99**Development of a Multiplexed Digital Polymerase Chain Reaction Respiratory Assay to Increase Testing Capacity and Efficiency from Wastewater Samples**

Presenter: Aleigha Wellbrock, Colorado Department of Public Health and Environment,
aleigha.wellbrock@state.co.us

Poster #100**Renovating Laboratory Systems: BSL-3 HVAC Replacement**

Presenter: Valerie Requeenez, Corpus Christi-Nueces County Public Health District Laboratory,
ValerieR@cctexas.com

Poster #101**Enhancing Public Health Outreach to Improve Specimen Submissions: Insights from County of Riverside Public Health Laboratory**

Presenter: Janet Garcia, County of Riverside — Public Health Laboratory, janet.garcia@ruhealth.org

Poster #102 – Withdrawn**Digital Droplet Polymerase Chain Reaction: An Efficient Tool for Infectious Diseases Surveillance in Wastewater Pipelines**

Presenter: Cesar Zelaya, County of Riverside — Public Health Laboratory, cesar.d.zelaya@gmail.com

Poster #103**Enhancing Laboratory Preparedness: Automated Decon Systems for Biothreat and Emerging Pathogen Response**

Presenter: Elizabeth Massoth, CURIS System, beth.mcauade@curissystem.com

Poster #104**Modernization of Public Health Lab: Implementing the Inaugural LIS and Building It into the Quality Management System of Dallas County**

Presenter: Victor Amadi, Dallas County Health and Human Services, victor.amadi@dallascounty.org

Poster #105**Investigating Methodological Benefits of SARS-Cov-2 Amplicon-based Sequencing Protocols Analyzed on ONT and Illumina Platforms**

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

Poster #106**Evaluating a Multi-Assay HIV Testing Algorithm**

Presenter: Eleanor Kirkscey, Dallas County Health and Human Services,
Eleanor.Kirkscey@dallascounty.org

Poster #107***Next Generation Sequencing (NGS) Validation and Analysis of HIV Genotypes and Drug Resistance Mutations Using Target Enrichment Methods**

Presenter: Erin Plaisance, Dallas County Health and Human Services, Erin.Plaisance@dallascounty.org

Poster #108**Overview of the Department of Defense Global Respiratory Pathogen Surveillance Program: 2023–2024 Influenza Season**

Presenter: Jeffrey Thervil, Defense Centers for Public Health – Dayton (DCPH-D),
jeffrey.thervil.ctr@us.af.mil

Poster #109**New Real-time PCR Assay for Detection of *Candida auris* and Echinocandin Resistance-associated Mutations**

Presenter: Chris Mazzochi, Euroimmun, chris.mazzochi@euroimmun.us

Poster #110**Genomic Surveillance Identifies Emerging Clones of Carbapenem-Resistant Enterobacterales Harboring New Delhi metallo- β -lactamase 7 (blaNDM-7) in Georgia.**

Presenter: Nandhakumar Balakrishnan, Georgia Department of Public Health,
nandhakumar.balakrishnan@dph.ga.gov

Poster #111***Genomic Analysis of the New Delhi Metallo- β -lactamase (blaNDM) Producing Carbapenem-Resistant Enterobacterales Informs the Clonal Transmission of Emerging Lineages in Georgia**

Presenter: Arunachalam Ramaiah, Georgia Department of Public Health,
arunachalamphd@gmail.com

Poster #112**Immunoaffinity Magnetic Beads for Microcystins Capture and Concentration in Biological Samples**

Presenter: Leah Ruth, Gold Standard Diagnostics Horsham,
Leah.Ruth@us.goldstandarddiagnostics.com

Poster #113**Multi-faceted Supply Chain Modernization for Public Health Laboratories**

Presenter: Meredith Korth, Guidehouse, mkorth@guidehouse.com

Poster #114**Leading with Purpose: Collectively Raising the Visibility of the Public Health Laboratory Profession**

Presenter: Chelsea Parsons, Guidehouse, cparsons@guidehouse.com

Poster #115**Flushing the Threat: Tracking Antimicrobial Resistance in Hawaiian Communities through Wastewater-based Epidemiology**

Presenter: Doris Young Wen Di, Hawaii State Department of Health, doris.di.nsw@doh.hawaii.gov

Poster #116***Leadership Techniques to Combat Burnout**

Presenter: Adolfo Lara, Houston Health Department Laboratory, adolfo.lara@houston.tx.gov

Poster #117**New Approach for Coronavirus Infection Identification: Targeting Negative RNA Strand as a Replacement for Positive RNA-based qPCR Detection**

Presenter: Darnell Davis, Howard University, darnelddavis86@gmail.com

Poster #118**Detection of Antimicrobial Resistance in Carbapenem-Resistant Gram-Negative Bacteria: Development of a Sequencing Workflow in the State of Illinois**

Presenter: Dylan Hendricks, Illinois Department of Public Health (IDPH), dylanlhendricksxc@gmail.com

Poster #119**The Expansion of Transit Time on the Detection of HCV Using Aptima 2 HCV Quant DX Assay**

Presenter: Stephanie Sweets, Indiana Department of Health Laboratory, ssweets@health.in.gov

Poster #120**SARS-CoV-2 Detection in Wastewater: A Long-term Application**

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

Poster #121***Validation of a Heat-inactivation Protocol for *Mycobacterium tuberculosis* Identification by MALDI-TOF Mass Spectrometry**

Presenter: Lauren Franco, Indiana University School of Medicine, laurencfranco@gmail.com

Poster #122**Concentration of Nano- and Microplastic Particles from Environmental Samples**

Presenter: David Alburty, InnovaPrep, dalburty@innovaprep.com

Poster #123**Mini-meta Study: Surface, Air, Water and Food Metagenomics Workflow Using the Automated Concentrating Pipette Select**

Presenter: David Alburty, InnovaPrep, dalburty@innovaprep.com

Poster #124**Evaluating How Well a Laboratory's LIMS Meets Their Requirements**

Presenter: Tim Longo, J Michael Consulting, tlongo@jmichael-consulting.com

Poster #125**Novel Informatics Deployment Using a Pilot Process**

Presenter: Tim Longo, J Michael Consulting, tlongo@jmichael-consulting.com

Poster #126**Successful LIMS Implementation — What Does it Take?**

Presenter: Tim Longo, J Michael Consulting, tlongo@jmichael-consulting.com

Poster #127**Open-Source Software Platform to Integrate Next Generation Sequencing Capabilities**

Presenter: Tim Longo, J Michael Consulting, tlongo@jmichael-consulting.com

Poster #128***Detecting Nosocomial Spread of *Candida auris* by Strain-typing with Whole Genome Sequencing**

Presenter: Shannon Murphy, Johns Hopkins Medicine, shannon.murphy.microbe@gmail.com

Poster #129**Advantages and Disadvantages of Laboratory Automation in the Virology Serology Unit at Kansas Health and Environment Laboratories**

Presenter: Gary Burruss, Kansas Health and Environment Laboratories, gary.burruss@ks.gov

Poster #130**Precision Patient Therapy — Leveraging the Power of AI on Laboratory and Clinical Data**

Presenter: Jerry Lominac, LabVantage, jerry.lominac@labvantage.com

Poster #131**Group A *Streptococcus* Molecular Surveillance — Los Angeles County**

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

Poster #132**Enhancing Food Safety Laboratories: Best Practices from an APHL Fellowship Experience**

Presenter: Oluwatosin Ijadeniyi, Maryland Department of Health Laboratories Administration, tosynolu@yahoo.com

Poster #133***Forever Chemicals in Drinking Water: Two Fellows' Perspective on Testing for Per- and Polyfluoroalkyl Substances in a Public Health Lab**

Presenter: Nicholas Brinza, Maryland Department of Health Laboratories Administration, nbrinza004@gmail.com

Poster #134**Rapid Bioinformatic Analyses and Data Visualization for Enhanced Genomic Surveillance of *Candida auris* in Massachusetts**

Presenter: Matthew Doucette, Massachusetts Department of Public Health, Matthew.Doucette@mass.gov

Poster #135**Suspect Viral Hemorrhagic Fever Patients: Adaptable Laboratory Testing Toolkit for Healthcare Facilities**

Presenter: Sarah E. Turbett, Massachusetts General Hospital, Turbett.Sarah@mgh.harvard.edu

Poster #136**Measurement of Vitamin E in Animal Tissue by LC-MS/MS with Comparison to LC-PDA (photo-diode array)**

Presenter: Delanie Prince, Michigan State University Veterinary Diagnostic Laboratory, prnced7@msu.edu

Poster #137**Development of LC-MS/MS Method for Quantitation of 1,25- and 24,25-dihydroxyvitamin D Metabolites in Equine Serum Compared to Commercial Radioimmunoassay**

Presenter: Gianna Serpe, Michigan State University Veterinary Diagnostic Laboratory, serpegia@msu.edu

Poster #138**Detection of bla_{OXA}-235 in the AR Lab Network Central Region**

Presenter: Rand Bourne, Minnesota Department of Health Public Health Laboratory, rbourne@nevada.unr.edu

Poster #139**Analyzing the Impact of CDT Platform Modifications on Minnesota's Second-Largest Clinical Laboratory**

Presenter: Raymond Erickson, Minnesota Department of Health, ray.erickson@state.mn.us

Poster #140***Establishment of Prospective Genomic Surveillance and Characterization of Respiratory Syncytial Virus in Minnesota**

Presenter: Sean Wang, Minnesota Department of Health, sean.wang@state.mn.us

Poster #141**Optimizing Outbreak Response: Harnessing Metagenomic and Whole Genome Sequencing Approaches for Bacterial Intoxication Investigations**

Presenter: Jisun Haan, Minnesota Department of Health, jisun.haan@state.mn.us

Poster #142**Genomic Characterization of *Vibrio cholerae* Genome: Insights into Sucrose Fermentation Phenotype Variation**

Presenter: Jisun Haan, Minnesota Department of Health, jisun.haan@state.mn.us

Poster #143**Comparison of Specimen Sources for Carbapenemase-producing *Acinetobacter* Colonization Screening**

Presenter: Sydney Tracey, Minnesota Department of Health, sydney.tracey.contractor@state.mn.us

Poster #144**Presence Vibrio Nucleic Acid in Spirulina-based Dietary Supplements Detected by the BIOFIRE® RITM0381153FILMARRAY® Gastrointestinal Panel**

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

Poster #145***A Tale of Two Pathotypes: Increasing Surveillance for Enteroaggregative and Enterotoxigenic *Escherichia coli* in Minnesota**

Presenter: Emily Verbrugge, Minnesota Department of Health, Emily.Verbrugge.Contractor@state.mn.us

Poster #146**Detection of Mobilized Colistin Resistance mcr-9.2 Gene and Associated IncHI2/IncHI2A Plasmids in Carbapenem-resistant *Enterobacter hormaechei* Using Whole Genome Sequencing**

Presenter: Srimadhav Nallani, Mississippi Public Health Laboratory,
Srimadhav.Nallani@msdh.ms.gov

Poster #147**Forging the Path for Expanding the Association of Public Health Laboratories' Impact**

Presenter: Adam Perkins, Missouri State Public Health Laboratory, adam.perkins@health.mo.gov

Poster #148***Self-Collect *Chlamydia trachomatis* and *Neisseria gonorrhea* Prevalence Rates in 2022–2023 and the Benefit of Testing Multiple Sites Beyond Just Genital**

Presenter: Bekah Reiser, Molecular Testing Labs, breiser@moleculartestinglabs.com

Poster #149***Canine Tickborne Diseases in Montana — A Serology Study Using Indirect Fluorescence Antibody (IFA) Assays**

Presenter: Geneka Glover, Montana Veterinary Diagnostic Laboratory, glover.geneka@yahoo.com

Poster #150**Highly Pathogenic Avian Influenza Testing of Domestic Animals in the State of Montana**

Presenter: Enrico Young, Montana Veterinary Diagnostic Laboratory, enrico.dicastroyoung@mt.gov

Poster #151**Using ISO 35001 as a Tool to Help Improve a Laboratory's Local Community Relations**

Presenter: Sharon Altmann, MRIGlobal, saltmann@mriglobal.org

Poster #152**Advancements in Mpox Detection: Strengthening Outbreak Preparedness**

Presenter: Kenny Yeh, MRIGlobal, kyeh@mriglobal.org

Poster #153**Utilization of the Modified Carbapenem Inactivation Method (mCIM) to Screen for Carbapenemase-Producing Enterobacterales, Nebraska 2023**

Presenter: Peter Iwen, Nebraska Public Health Laboratory, piwen@unmc.edu

Poster #154**Utilization of the Modified Carbapenem Inactivation Method (mCIM) to Detect for Carbapenemase Production in Carbapenem-Resistant *Klebsiella (Enterobacter) aerogenes*, Nebraska 2023**

Presenter: Amy Roden, Nebraska Public Health Laboratory, amy.roden@unmc.edu

Poster #155**The Role of the Public Health Laboratories in the US to Meet Biosecurity Preparedness and Other Public Health Needs**

Presenter: Tony Sambol, Nebraska Public Health Laboratory, asambol@unmc.edu

Poster #156**The ArGO SARS-CoV-2 NGS Test: A Protocol-based Clinical Variant Test for COVID-19**

Presenter: James Parkin, Neelyx Labs, james.parkin@neelyx.com

Poster #157**Progress Towards Pathogen Agnostic Diagnostic Testing via Multiplexed Amplicon Sequencing**

Presenter: Shyam Saladi, Neelyx Labs, shyam.saladi@neelyx.com

Poster #158***Salivary Detection of Monkeypox Virus in Individuals Presenting with Lesions for Diagnostic Mpox Testing**

Presenter: Theresa Zepeda, Neelyx Labs, theresa.zepeda@neelyx.com

Poster #159**New Hampshire Public Health Surveillance of Opioids in Non-Fatal Overdoses**

Presenter: Benjamin Niemi, New Hampshire Public Health Laboratory, benjamin.c.niemi@dhhs.nh.gov

Poster #160**Comparison of KingFisher and Qiagen DSP Manual Extraction Methods and Efficiency Using Influenza A and B Subtypes/lineages**

Presenter: Briah Parchment, New Hampshire Public Health Laboratory, briah.m.parchment@dhhs.nh.gov

Poster #161**Autoclave Sterilization Validation and Verification Processes for Biowaste**

Presenter: Joseph Romanow, New Hampshire PHL, joseph.r.romanow@affiliate.dhhs.nh.gov

Poster #162**De-identification Strategies of Biomonitoring Data for Collaborative Research and Sustainable Partnership**

Presenter: Farooq Salangi, New Hampshire Public Health Laboratory, Ghulamfarooq.salangi@affiliate.dhhs.nh.gov

Poster #163**Validation of Influenza Sequencing on the Illumina and Oxford Nanopore Platforms**

Presenter: Cherrelle Barnes, New Jersey Public Health Environmental Laboratories, cherrelle.barnes@doh.nj.gov

Poster #164***Updates On The Implementation of New Jersey's First Statewide Biomonitoring Population Study: NJHANES**

Presenter: Esohe Irabor, New Jersey Public Health Environmental Laboratories, esohe.irabor@doh.nj.gov

Poster #165**Reporting Elevated Biomonitoring Results to Study and Project Participants**

Presenter: Gurleen Kaur, New Jersey Public Health Environmental Laboratories, gurleen.kaur@doh.nj.gov

Poster #166**The Development of a High-throughput Solid Phase Extraction Method for PFAS in Human Serum Using an Automated Janus® Workstation**

Presenter: Zhan Quan Li, New Jersey Public Health Environmental Laboratories, ben.li0106@gmail.com

Poster #167**New Jersey Biomonitoring Mercury Levels: A Comparison and Call to Action**

Presenter: Sarah Li, New Jersey Public Health Environmental Laboratories, sarah.li@doh.nj.gov

Poster #168**Partnerships Form the Basis of an Articulated Public Health Laboratory Workforce Development Program**

Presenter: Susan Mikorski, New Jersey Public Health Environmental Laboratories, Susan.Mikorski@doh.nj.gov

Poster #169**Engaging Interns and Fellows in Development of a STEM Program for High School Students**

Presenter: Susan Mikorski, New Jersey Public Health Environmental Laboratories, Susan.Mikorski@doh.nj.gov

Poster #170**Assessing the Status of Advanced Molecular Detection (AMD) in Clinical Laboratories in New Jersey**

Presenter: Susan Mikorski, New Jersey Public Health Environmental Laboratories, Susan.Mikorski@doh.nj.gov

Poster #171***Validation of a Combined Analytical Method Testing for Toxic Metals in Urine: Improving Laboratory Efficiency and Implications for Biomonitoring Use**

Presenter: Aurora Mills, New Jersey Public Health Environmental Laboratories, aurora.mills@doh.nj.gov

Poster #172**Adapting Prenatal Metals Screening Procedures to New NJ Partners**

Presenter: Sarah Mustaqali, New Jersey Public Health Environmental Laboratories, sarah.mustaqali@doh.nj.gov

Poster #173***The Method Development of a Qualitative Analysis for the Testing of Drugs of Abuse by UHPLC-MS/MS in Human Urine**

Presenter: Nkemdili Nebeolisa, New Jersey Public Health Environmental Laboratories, nkemdili.nebeolisa@doh.nj.gov

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Presenter: Fredrick Nindo, New Jersey Public Health Environmental Laboratories, fredrick.nindo@doh.nj.gov

Poster #175**Cobots in Action: PHEL's Vision for Empowering Workforce Development and Efficient Laboratories**

Presenter: Satyam Patel, New Jersey Public Health Environmental Laboratories, satyam.patel@doh.nj.gov

Poster #176**A Retrospective View of NJDOH's Inaugural State-wide Tick Surveillance Program**

Presenter: Aaron Preidel, New Jersey Public Health Environmental Laboratories,
Aaron.Preidel@doh.nj.gov

Poster #177***Optimization of Fish Homogenization Procedures for EPA Method 1633 to Measure Per- and Polyfluoroalkyl Substance (PFAS) in Fish**

Presenter: Shenelle Shaw, New Jersey Public Health Environmental Laboratories,
shenelle.shaw@doh.nj.gov

Poster #178**Evaluation of a Bioinformatics Pipeline for Antimicrobial Resistance Prediction in *Mycobacterium tuberculosis* Complex at New York City Public Health Laboratory**

Presenter: Saymon Akther, New York City DOHMH - Public Health Laboratory,
sakther@health.nyc.gov

Poster #179***Pseudomonas aeruginosa* Strains with Quorum Sensing Mutations Form Small Colony Variants in Co-culture**

Presenter: Kayla Simanek, New York State Public Health Lab, Wadsworth Center,
ksimanek@albany.edu

Poster #180**The North Carolina State Laboratory of Public Health's Role in the Nationwide WanaBana Fruit Puree Lead Recall**

Presenter: Chris Goforth, North Carolina State Laboratory of Public Health,
chris.goforth@dhhs.nc.gov

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Presenter: Chris Goforth, North Carolina State Laboratory of Public Health,
chris.goforth@dhhs.nc.gov

Poster #182**Two Is Better than One: Advancing Biosafety and Biosecurity Through Twinning Activities**

Presenter: Anna Liddicoat, North Carolina State Laboratory of Public Health,
anna.liddicoat@dhhs.nc.gov

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Presenter: Alex Chik, Ontario Clean Water Agency, achik@ocwa.com

Poster #184***From Detection to Prevention — Carbapenemase Producing Organisms in Orange County**

Presenter: Vida Mofidi, Orange County (CA) Public Health Laboratory, vmofidi@ochca.com

Poster #185**Better Together: Lessons Learned from Oregon's Clinical Laboratory Consortium During COVID-19**

Presenter: Macey Henning, Oregon State Public Health Laboratory,
macey.henning@oha.oregon.gov

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

Poster #187**High-accuracy, Long-read Sequencing of Microbial Isolates and Standards Enables AMR Profiling, Methylation Detection and Taxonomic Annotation**

Presenter: Priyesh Rughani, Oxford Nanopore Technologies, priyesh.rughani@nanoporetech.com

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Presenter: Jeremy Wilkinson, Pac Bio, jwilkinson@pacb.com

Poster #189**Comparison of 96 ESBL Strains Whole-Genome Sequenced with Illumina and PacBio Technology**

Presenter: Jonathan Monk, Palmona Pathogenomics, jonathan.monk@palmona.com

Poster #190**Longitudinal Analysis of ESBL ESKAPEE Isolates Using Whole-genome Sequencing**

Presenter: Jonathan Monk, Palmona Pathogenomics, jonathan.monk@palmona.com

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Presenter: Lisa Dettinger, Pennsylvania Department of Health Bureau of Laboratories,
ldettinger@pa.gov

Poster #192**Eleven-year Review of Infant *Clostridium botulinum* Mouse Bioassay Toxin Testing at Pennsylvania Department of Health Bureau of Laboratories**

Presenter: Lisa Dettinger, Pennsylvania Department of Health Bureau of Laboratories,
ldettinger@pa.gov

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

Poster #194**Discrimination of Viral Capsid Integrity Using a Novel Viability PCR Approach**

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

Poster #195**Compact Sample Prep for High Containment Molecular Workflows**

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

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Presenter: Peishan Xie, Revvity, Peishan.Xie@revvity.com

Poster #197**Correlation Study of *Candida albicans* Quantification by Automated Cell Counter, qPCR and ddPCR Technologies**

Presenter: Peishan Xie, Revvity, Peishan.Xie@revvity.com

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Presenter: Daniel Jarem, Roche Diagnostics Corporation, daniel.jarem@roche.com

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Presenter: Hannah Barbian, Rush University Medical Center, hannah_j_barbian@rush.edu

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Presenter: Sofiya Bobrovska, Rush University Medical Center, sofiya_bobrovska@rush.edu

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Presenter: Alyse Kittner, Rush University Medical Center, alyse.kittner@cityofchicago.org

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Presenter: Eddie Gonzalez Loumiet, Ruvos, lmin@ruvos.com

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Presenter: Brittany Choate, SalivaDirect, brittany@salivadirectinc.org

Poster #204**Diagnostic Testing Preferences Can Help Inform Future Public Health Response Efforts: Global Insights from an International Survey**

Presenter: Brittany Choate, SalivaDirect, brittany@salivadirectinc.org

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Presenter: Monica Jacinto, San Francisco Public Health Laboratory, monica.jacinto@sfdph.org

Poster #206***Emerging Insights on Postbiotics for the Prevention of Infectious Diseases**

Presenter: Hedayat Hosseini, San Mateo Public Health Laboratory, hedayat.s.hosseini@gmail.com

Poster #207**The KibbleTrail**

Presenter: Dana Waggoner, South Carolina Public Health Laboratory, waggond2@dhec.sc.gov

Poster #208**Targeted Wastewater Surveillance Employing Cultural Methods**

Presenter: Dana Waggoner, South Carolina Public Health Laboratory, waggond2@dhec.sc.gov

Poster #209***Integrated Wastewater and Clinical Genomic Surveillance for Strategic Planning of Mpox Vaccination in Southern Nevada**

Presenter: Horng-Yuan Kan, Southern Nevada Public Health Laboratory, kan@snhd.org

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Presenter: Brad Mire, Standard BioTools, brad.mire@standardbio.com

Poster #211***In the Jungle, Welcome to the Fungal – Hologic Panther's® Got What You Need**

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

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Presenter: Kanwal Alvarez, State Hygienic Laboratory at the University of Iowa, kanwal-alvarez@uiowa.edu

Poster #213**Training to Identify and Address Root Causes in Non-conforming Events**

Presenter: David Gonzalez, State Hygienic Laboratory at the University of Iowa, davidlgonzalez47@gmail.com

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Presenter: Donald Simmons, State Hygienic Laboratory at the University of Iowa, donald-simmons@uiowa.edu

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Presenter: Chris Connelly, Streck, cconnelly@streck.com

Poster #216**Improved Quality Control for Molecular-Based Sepsis Diagnostics Testing with Patient-like Full-process Controls**

Presenter: Chris Connelly, Streck, cconnelly@streck.com

Poster #217**A Workflow for Successful NGS *Candida auris* Sequencing**

Presenter: Athena Lemon, Tennessee Division of Laboratory Services, athena.lemon@tn.gov

Poster #218**A Look at the Genotype Prevalence of *Cryptosporidium* in Texas**

Presenter: Deanne Gehlbach, Texas Department of State Health Services, deanne.gehlbach@dshs.texas.gov

Poster #219**Antimicrobial Susceptibility Test Profile of *Klebsiella pneumoniae* Carbapenemase Positive Enterobacterales Over 5-year Period**

Presenter: Brady Ryan, Texas Department of State Health Services, Brady.Ryan@dshs.texas.gov

Poster #220**Analysis of Carbapenemase Genes and Antimicrobial Susceptibility Profiles of Three Common Carbapenem-resistant Enterobacterales Species**

Presenter: Brady Ryan, Texas Department of State Health Services, Brady.Ryan@dshs.texas.gov

Poster #221**Maximizing Use of Publicly Available Genomic Data to Support Infectious Disease Outbreak Investigations**

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

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Presenter: Cynthia Grim, ThermoFisher, cynthia.grim@thermofisher.com

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Presenter: Jingshu Guo, ThermoFisher Scientific, jingshu.guo@thermofisher.com

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Presenter: Jingshu Guo, ThermoFisher Scientific, jingshu.guo@thermofisher.com

Poster #225**Enhanced Detection of Hemoglobin Variants by High-Resolution Accurate-Mass (HRAM) Mass Spectrometry for Clinical Research**

Presenter: Jingshu Guo, ThermoFisher Scientific, jingshu.guo@thermofisher.com

Poster #226***Comprehensive Viral Pathogens Detection in Wastewater Using Hybrid Capture Enrichment and Whole Genome Sequencing**

Presenter: Linnet Immaraj, University of Alberta, immaraj@ualberta.ca

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Presenter: Jill Roberts, University of South Florida, jcrobert@usf.edu

Poster #228**Wellness in the Workplace: The Incorporation of Training with Personal Resiliency and Its Effect on Retention**

Presenter: Michelle Crum, University of Texas at Tyler Health Science Center, michelle.crum@uthct.edu

Poster #229**Wastewater-based Surveillance of Carbapenemase-resistant Genes**

Presenter: Melissa Schussman, University of Wisconsin-Milwaukee, schussm2@uwm.edu

Poster #230**Strengthening Communication and Coordination for Effective Water Contamination Incident Support**

Presenter: Peter Roumeliotis, US Environmental Protection Agency, roumeliotis.peter@epa.gov

Poster #231***Wastewater-based Disease Forecasting for Respiratory Viruses: Advances and a Glimpse into the Future**

Presenter: Amna Elbadawi, University of Texas Health Science Center at Tyler – PHLET, amnaelbadawi18@gmail.com

Poster #232**A Case Study of the Pros and Cons of Transitioning Computational Environments from On-Premises to the Cloud**

Presenter: John Arnn, Utah Public Health Laboratory, jwarnn@gmail.com

Poster #233***Tick Talk: Establishment of Surveillance Capacity for Ticks and Tick-borne Diseases in Utah**

Presenter: Kaona Ayres, Utah Public Health Laboratory, Email: knayres2@gmail.com

Poster #234**Expanding Horizons in Public Health: Metagenomic Surveillance of Viral Diversity in Wastewater Using a Hybrid-capture Approach**

Presenter: Pooja Gupta, Utah Public Health Laboratory, pgupta@utah.gov

Poster #235**Genomic Surveillance of *Candida auris* Clades and FKS1 Mutations in the Antimicrobial Resistance Laboratory Network's Mountain Region: A Comprehensive Analysis**

Presenter: Thomas Iverson, Utah Public Health Laboratory, tiverson@utah.gov

Poster #236**Bayes Inference for Disease Transmission Case: Covid-19 Transmission Model with Simulated Data**

Presenter: Olinto Linares-Perdomo, Utah Public Health Laboratory, olinares-perdomo@utah.gov

Poster #237**Implementation of a Software for Automatic Reading of Agar Dilution Plates at a *Neisseria gonorrhoeae* Antimicrobial Resistance Surveillance Laboratory**

Presenter: Bailee Troutman, Utah Public Health Laboratory, btroutma@uccs.edu

Poster #238**Detecting Antimicrobial Resistance Genes in Raw Nanopore Reads**

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

Poster #239**SPLINTER: A NextFlow Pipeline for Genome Assembly and Determination of Relative Variant Abundances in SARS-CoV-2 Wastewater Samples**

Presenter: Shelby Bennett, Virginia Division of Consolidated of Laboratory Services, shelby.bennett@dgs.virginia.gov

Poster #240***Public Health Collaboration in the Detection, Characterization and Surveillance of a *Neisseria meningitidis* Serogroup Y Statewide Outbreak in Virginia**

Presenter: Emily Craig, Virginia Division of Consolidated of Laboratory Services,
emily.craig@dgs.virginia.gov

Poster #241**Insidious — How the Presence of Bias Negatively Impacts Each of the Core Functions of Public Health**

Presenter: Marilyn Freeman, Virginia Division of Consolidated of Laboratory Services,
marilyn.bibbs@dgs.virginia.gov

Poster #242**An Innovative Partnership Promote Careers in Life Science**

Presenter: Marilyn Freeman, Virginia Division of Consolidated of Laboratory Services,
marilyn.bibbs@dgs.virginia.gov

Poster #243***Antimicrobial Resistance Genomic Surveillance: Finding the Needle in the Haystack**

Presenter: Katelin Gali, Virginia Division of Consolidated of Laboratory Services,
katelin.gali@dgs.virginia.gov

Poster #244**Recruiting a Successful Laboratory Workforce Through a Collaborative Internship Program**

Presenter: Katherine Wentz, Virginia Division of Consolidated of Laboratory Services,
katherine.wentz@dgs.virginia.gov

Poster #245**Evaluating the Efficacy of Harmful Algal Bloom Beach Re-opening Protocols in Two Putnam County Lakes**

Presenter: Madelyn Caldwell, Wadsworth Center, New York State Department of Health,
madelyn.caldwell@health.ny.gov

Poster #246**Mycobacterial Conjugation Reveals a Role for Calcium in Cell Contact Signaling**

Presenter: Tayler Farrington, Wadsworth Center, New York State Dept. of Health,
taylerlfarrington1206@gmail.com

Poster #247**Development and Evaluation of a Multiplex Microsphere Immunoassay for the Detection of Antibodies Consistent with Travel-Associated Arboviral Infections**

Presenter: Kelly Howard, Wadsworth Center, New York State Department of Health,
kelly.howard@health.ny.gov

Poster #248**Understanding the Relationship of *P. aeruginosa* and *M. abscessus* in Cystic Fibrosis Infections**

Presenter: Amanda Kurtz, Wadsworth Center, New York State Department of Health,
amanda.kurtz@health.ny.gov

Poster #249**MALDI-TOF-MS Library Enrichment of Medically Important Rare Yeasts in a Clinical Laboratory**

Presenter: Anuradha Marathe, Wadsworth Center, New York State Department of Health, anuradha.marathe@health.ny.gov

Poster #250**Development and Validation of a Multiplex Real-Time PCR Assay for Rapid Detection of *Blastomyces dermatitidis*, *Blastomyces gilchristii* and *Histoplasma capsulatum***

Presenter: Brittany O'Brien, Wadsworth Center, New York State Department of Health, brittany.obrien@health.ny.gov

Poster #251**Carbapenemase-Producing Organism Whole-Genome Sequencing in the Antimicrobial Resistance Laboratory Network Northeast Region: Laboratory Information Management System Integration and Data Visualization**

Presenter: Catharine Prussing, Wadsworth Center, New York State Department of Health, catharine.prussing@health.ny.gov

Poster #252**Traversing the Unknown Within Mycobacterial Horizontal Gene Transfer by Assessing Recipient Mating Identity Protein Function**

Presenter: Easton Reagan, Wadsworth Center, New York State Department of Health, easton.reagan3@health.ny.gov

Poster #253***Pseudomonas aeruginosa* RhlI Variants Exposure to Antibiotics**

Presenter: Megan Schumacher, Wadsworth Center, New York State Department of Health, megan.schumacher@health.ny.gov

Poster #254**Optimization of Automated RT-PCR Assay for West Nile Virus and Eastern Equine Encephalitis Virus Detection Using the Panther Fusion System**

Presenter: Kajal Patel, Washington DC Public Health Laboratory, kajal.patel@dc.gov

Poster #255***Validation of a Molecular Workflow to Identify the Diphtheria Exotoxin Gene in *Corynebacterium* Species**

Presenter: Andy Chia, Washington State Department of Health, andy.chia@doh.wa.gov

Poster #256**Dual dPCR Platform Validation of Multiplex Assays for Wastewater-based Epidemiology for SARS-CoV-2, Influenza A/B, RSV, Mpox, and Internal Process Control**

Presenter: Madeline Gilbert, Washington State Public Health Laboratory, maddie.gilbert@doh.wa.gov

Poster #257**Empowering Microbiology Operations with Power BI and LIMS Integration: A Case Study from WA PHL**

Presenter: Mohamed Gomaa, Washington State Public Health Laboratory, spockegypt@gmail.com

Poster #258**Dedicated Courier System for Public Health Laboratories, Optimizing Testing Efficiency and Outcomes**

Presenter: Mohamed Gomaa, Washington State Public Health Laboratory,
spockegypt@gmail.com

Poster #259**From Scattered Sheets to Actionable Insights: Establishing a Robust NGS QA Database**

Presenter: Mohamed Gomaa, Washington State Public Health Laboratory,
spockegypt@gmail.com

Poster #260***Tracking the 2022–23 Influenza and RSV Seasons in Wisconsin: Comparison of Wastewater Surveillance against Clinical Laboratory and Emergency Department Data**

Presenter: Ian Pray, Wisconsin Department of Health Services, ian.pray@dhs.wisconsin.gov

Poster #261**Continuation of Pilot Project Using Lead Isotopes to Determine Sources of Child Lead Poisoning**

Presenter: Christa Dahman, Wisconsin State Laboratory of Hygiene, christa.dahman@slh.wisc.edu

Poster #262**Development of Digital PCR Assays for Quantifying Carbapenem-resistant Genes from Wastewater for Public Health Surveillance**

Presenter: Evelyn Doolittle, Wisconsin State Laboratory of Hygiene, evelyn.doolittle@slh.wisc.edu

Poster #263**Wastewater-based Surveillance Beyond COVID-19: A Comparison of Norovirus Levels in Wastewater Influent from Across Wisconsin with Clinical PCR Positivity Rate**

Presenter: Devin Everett, Wisconsin State Laboratory of Hygiene, Devin.Everett@slh.wisc.edu

Poster #264**Moving Beyond COVID-19: Two-year Wastewater Monitoring for Influenza and Respiratory Syncytial Virus, a Comparison to Clinical Cases**

Presenter: Rebecca Fahney, Wisconsin State Laboratory of Hygiene, Rebecca.Fahney@slh.wisc.edu

Poster #265**Digital PCR Assay Development and Comparison for the Quantification of *C. auris* from Wastewater**

Presenter: Griffin Knuth, Wisconsin State Laboratory of Hygiene, griffin.knuth@slh.wisc.edu

Poster #266**Wastewater Surveillance for SARS-CoV-2 Prevalence in Wisconsin**

Presenter: Oliver Long, Wisconsin State Laboratory of Hygiene, Oliver.Long@slh.wisc.edu

Poster #267**Evaluating the Use of Hybridization Capture Metagenomic Sequencing for Public Health Laboratory Surveillance**

Presenter: Mitchell Ramuta, Wisconsin State Laboratory of Hygiene, mitchell.ramuta@slh.wisc.edu

Poster #268***Developing High-Throughput RT-PCR Testing for *Candida auris* on the Hologic Panther Fusion Open Access System.**

Presenter: Brandon Schumitsch-Jewell, Wisconsin State Laboratory of Hygiene,
brandon.shumitschjewell@slh.wisc.edu

Poster #269***Implementation of NG-Test CARBA5 and CHROMagar-mSuperCARBA to Streamline Isolate Testing and Colonization Screening of Carbapenemase-Producing Organisms at Wisconsin State Laboratory**

Presenter: Saba Shama, Wisconsin State Laboratory of Hygiene, Saba.Shama@slh.wisc.edu

Poster #270**Sequencing West Nile Virus in Wyoming using Illumina Microbial Amplicon Prep Kit**

Presenter: Robert Petit, Wyoming PHL, robert.petit@wyo.gov

Poster #271**Expanding Bactopia as a Frame-work for Bacterial, Viral and Metagenomic Analysis**

Presenter: Robert Petit, Wyoming PHL, robert.petit@wyo.gov

Poster #272***Analysis of Total Lead in Retail Juice Samples**

Presenter: John Chisholm, Indiana Department of Health Laboratory, jjchisholm@yhc.edu

Poster #273**An Integrated Approach for Pathogen Detection, AMR Monitoring and Functional Analysis in Wastewater**

Presenter: Xiaoxiao Cheng, Zymo Research Corporation, xcheng@zymoresearch.com

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2024–2025 APHL National Conferences

APHL 2024 Newborn Screening Symposium

October 20–24, 2024, Omaha, NE

2025 ID Lab Con

March 25–27, 2025, Pasadena, CA

APHL 2025 Annual Conference

May 5–8, 2025, Portland, OR

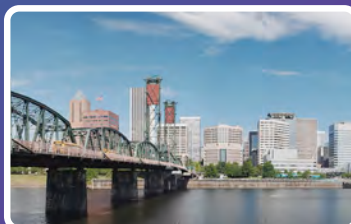
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