

The Power to Resist: Labs vs. Antimicrobial Resistance

Preconference Workshop, ID Lab Con 2025
March 24, 2025 • 9:00 am – 4:00 pm PDT
Pasadena Convention Center • Pasadena, CA
Register at www.aphl.org/IDLabCon • \$200

P.A.C.E.® continuing education credits will be offered.



MARCH 25-27, 2025
PASADENA, CA

DESCRIPTION

Antimicrobial resistance (AR) is a critical public health threat that requires dedicated laboratory testing to rapidly detect resistant infections and improve clinical outcomes. In this workshop participants will explore the latest diagnostic tools, techniques for accurate pathogen identification and the role of antimicrobial susceptibility testing in stopping the spread of AR.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Describe the value of AR gene detection in clinical and public health settings and procedures for resolving AR gene vs. phenotypic AST result discrepancies
- List 10 AR pressing issues and explain how the laboratory can deal with them
- Discuss the latest technology

AUDIENCE

This course is intended for clinical and public health laboratorians who conduct or are interested in implementing AR testing. Level of instruction: Intermediate (Refresher course; some basic knowledge is required; for the experienced staff technologist with some years of experience)

SPEAKERS

Romney Humphries, PhD, D(ABMM)
Jean Patel, PhD, D(ABMM)
Robert Potter, PhD, D(ABMM)
Paula Vagnone, MT(ASCP)

PROPOSED AGENDA

9:00 am	Welcome and Introductions
9:15 am	The Battle Between Genotype and Phenotype
10:15 am	AMR Hot Topics: A Collection of 10 Pressing Issues — Part 1
12:15 pm	Lunch Break
1:15 pm	AMR Hot Topics: A Collection of 10 Pressing Issues – Part 2
2:15 pm	Break
2:30 pm	New Developments in AR Detection: An Industry Panel
3:45 pm	Closing Remarks
4:00 pm	Adjournment

in collaboration with



Next Steps for Next Generation Sequencing

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DESCRIPTION

This workshop will discuss the current trends and considerations for Next Generation Sequencing (NGS) in infectious disease detection and surveillance. As NGS has become more widely adopted, this preconference will talk about what considerations laboratories should make in deciding how to utilize and apply sequencing data. This workshop will discuss topics such as metagenomics, clinical sequencing, and genomic epidemiology.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Discuss how clinical and public health laboratories decide how to onboard sequencing for different use cases
- Describe the metagenomics approaches and use cases currently used in pathogen genomics
- Discuss how genomic epidemiology practices can be used by both public health and clinical laboratories

SPEAKERS

Heather Blankenship, PhD, Michigan Department of Health and Human Services

Daniel Evans, MS, Minnesota Department of Health

Kelsey Florek, PhD, Wisconsin State Laboratory of Hygiene

Christin L. Hanigan, PhD, Association of Public Health Laboratories

Kelly Oakeson, PhD, Utah Department of Health and Human Services

Natosha Zanders, MS, Centers for Disease Control and Prevention, Office of Advanced Molecular Detection

PROPOSED AGENDA

9:00 am	Welcome and Introductions Overview of OAMD and Goals
9:30 am	Session I: What to Do With the Data?
10:45 am	Break
11:00 am	Session II: Genomic Epidemiology
12:30 pm	Lunch Break
1:30 pm	Session III: Metagenomics
2:30 pm	Break
2:45 pm	Session IV: Sequencing Decision Matrix Exercise
3:45 pm	Wrap-up
4:00 pm	Adjournment

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

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In Vitro Diagnostics (IVDs) are regulated by the FDA using a classification system that ultimately determines the appropriate regulatory controls and premarket submission processes that apply to each device. Clinical and public health laboratories have typically relied upon IVD companies to navigate the FDA's processes to bring IVDs to market. Previously, laboratories could utilize FDA authorized IVDs and supplement their test menus with laboratory-developed tests (LDTs) validated to CLIA standards. However, the FDA's final published rule on LDTs may result in new oversight that could dramatically shift how clinical and PH laboratories can develop and offer LDTs going forward. This workshop will provide an overview of FDA regulations that pertain to IVDs, with a focus on how to prepare for compliance with Stage 1 of the LDT Rule.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Describe the status of the FDA LDT regulations and understand how to maintain compliance with Stage 1 requirements as applicable
- Define key requirements of a quality system for clinical and PH laboratories
- Understand how regulatory requirements apply to a variety of different LDTs

SPEAKERS

Sarah Buss, PhD, D(ABMM), Association of Public Health Laboratories

Jonathan R. Genzen, MD, PhD, ARUP Laboratories

Karen Harrington, PhD, HCLD(ABB), Hologic

Kara Levinson, PhD, MPH, D(ABMM), Tennessee Department of Health

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

Kimberlee A. Musser, PhD, Wadsworth Center

Susan E. Realegeno, PhD, D(ABMM), M(ASCP), Quest Diagnostics

PROPOSED AGENDA

9:00 am	Welcome and Introductions
9:40 am	An Update on the FDA LDT Rule
10:10 am	FDA Rule Impact to PHs and Available Resources
10:45 am	Break
11:00 am	LDT Validation at the Wadsworth Center
11:30 am	Small Group Activity
12:15 pm	Lunch Break
1:15 pm	Laboratory Quality Systems
1:45 pm	Small Group Activity
2:45 pm	Break
3:00 pm	Lessons from IVD Manufacturing
3:55 pm	Wrap-up
4:00 pm	Adjournment

Optimizing Mycobacteriology Laboratory Operations: Strategies for Supervisor Success

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DESCRIPTION

This workshop is designed to enhance mycobacteriology laboratory supervisors' abilities to oversee and optimize laboratory operations. Topics include quality assurance and quality control, regulatory requirements, and validation/verification of tuberculosis (TB) diagnostic methods, along with discussions on workforce training and retention. Participants will review and refine their mycobacteriology testing algorithms, explore best practices, and engage in group discussions to address challenges and share solutions. The workshop will also include effective communication between mycobacteriology laboratories, TB Programs and clinicians, aiming to strengthen partnerships and enhance collaboration and expectations. The sessions offer a collaborative platform for knowledge-sharing and practical problem-solving in TB diagnostics.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Recognize key elements essential for maintaining high TB testing standards in the mycobacteriology laboratory
- Identify mycobacteriology laboratory best practices and how best to implement within one's laboratory
- Discuss the various approaches of mycobacteriology testing algorithms for the detection and determination of drug resistance of *Mycobacterium tuberculosis* complex
- Describe special considerations for hiring and retaining the workforce of a mycobacteriology laboratory
- Understand the importance of establishing partner relationships, effective communication strategies and test result reporting and interpretation

SPEAKERS

Emily Craig, MS, M(ASCP), Virginia Division of Consolidated Laboratory Services

Erin Estes, MBA, MLS(ASCP), Association of Public Health Laboratories

Drew Francis, Arizona State Public Health Laboratory

Julie Higashi, MD, PhD, Los Angeles County Public Health Laboratory

Hector Rivas, Los Angeles County Public Health Laboratory

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

Angie Schooley, Michigan Department of Health and Human Services

PROPOSED AGENDA

9:00 am	Welcome and Introductions
9:45 am	Quality Assurance and Quality Control (QA/QC) for the Mycobacteriology Laboratory
10:45 am	Break
11:00 am	Quality Assurance and Control Discussion
11:30 am	Workforce Retention for Laboratories
12:00 pm	Lunch Break
1:00 pm	Mycobacteriology Testing Considerations and Best Practices
2:15 pm	Workshop Interactive Session
2:45 pm	Break
3:00 pm	Partner Relationships (Laboratory, TB Program and Clinicians)
3:55 pm	Wrap-up
4:00 pm	Adjournment

Diagnostic Approaches to Emerging Infectious Diseases

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DESCRIPTION

This workshop will focus on approaches to test selection and result interpretation as well as recommended considerations for building and/or maintaining diagnostic test capacity for emerging or reemerging pathogens in the United States. Infectious agents covered will include vector-borne diseases, parasitic and fungal infections and re-emerging vaccine preventable diseases.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Identify the optimal diagnostic approach and preferred laboratory assay(s) for detection of emerging pathogens
- Describe the decision points in determining whether to maintain current testing, implement new assays or discontinue test method(s) for emerging/re-emerging pathogens
- Discuss the interplay between clinical and public health laboratories and their respective roles for detection of emerging or re-emerging pathogens

SPEAKERS

Amy B. Dean, PhD, New York State Department of Health

Julianne V. Kus, MSc, PhD, FCCM, Public Health Ontario

Amy L. Leber, PhD, D(ABMM), SM(ASCP)MB, Nationwide Children's Hospital

Anisha Misra, PhD, Cleveland Clinic

Kimerly McCullor, PhD, MSc, Michigan Bureau of Laboratories

Anisha Misra, Cleveland Clinic

Benjamin Pinsky, MD, PhD, Stanford University School of Medicine

Brian H. Raphael, PhD, PHLD(ABB), Centers for Disease Control and Prevention

Marty K. Soehnlen, PhD, MPH, PHLD(ABB), Michigan Bureau of Laboratories

PROPOSED AGENDA

9:00 am	Welcome and Introductions
9:15 am	Session I: Vector-Borne Diseases
10:30 am	Break
10:45 am	Session II: Fungal Diseases
12:00 pm	Lunch Break
1:00 pm	Session III: Post-Covid Reemerging Pathogens
2:15 pm	Break
2:30 pm	Session IV: Parasitology
3:45 pm	Wrap-up
4:00 pm	Adjournment

Biosafety Practices for the Clinical and Public Health Laboratorian

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This workshop is designed to enhance the knowledge and skills of clinical and public health laboratorians in critical areas of biosafety and biosecurity. Participants will learn best practices to identify and mitigate risks for laboratory personnel, including understanding laboratory acquired infections (LAIs), performing risk assessments and conducting root cause analyses for laboratory incidents or near misses. This workshop will also include practical sessions on how to use the Association of Public Health Laboratories' (APHL) "Exposure Assessment and Symptom Monitoring Guide" and applying these tools to real-world scenarios.

OBJECTIVES

At the end of the workshop, the participant will be able to:

- Recognize the impact of LAIs and the key principles of biosafety
- Apply tools for performing risk assessment, exposure assessment, and root cause analysis
- Review strategies for managing a biosafety program, the role of biosafety competencies, and strategies for communicating with leadership

SPEAKERS

Erin Bowles, BS, MLS(ASCP), Wisconsin State Laboratory of Hygiene

Shoolah Escott, MS(MLS), MT(ASCP), ABSA International

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

Michael Perry, MS, MSED, Wadsworth Center

PROPOSED AGENDA

9:00 am	Welcome and Introductions
9:15 am	Session I: Review of the History of Lab Acquired Infections Overview of the LAI Database
9:45 am	Session II A: Overview of Exercise Tools for Risk Assessment, Exposure Assessment and Root Cause Analysis
10:30 am	Break
10:45 am	Session II B: Review of Two Published LAI Papers Using the Tools Above
11:25 am	Session III: Small Group Activity: Case Reviews
12:30 pm	Lunch Break
1:30 pm	Case Reviews and Reporting
2:30 pm	Break
2:45 pm	Session IV: Apply Literature Findings to an Exposure While Working with an Emerging Infectious Disease
3:15 pm	Session V: Cost of Exposure Analysis
3:30 pm	Session VI: Communication, Competencies and Biosecurity
3:45 pm	Questions and Discussion
4:00 pm	Adjournment