

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.



**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

[full poster abstracts](#)

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, dorothy.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, darnelldavis86@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

Poster #174**Using an AI Embedded Mind-map to Create an Information Model of a Public Health Laboratory System**

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

Poster #181**Finding Value in Sewage: Validation of a Multi-Target Assay to Enhance Respiratory Disease Surveillance Using Wastewater Samples in North Carolina**

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

Poster #183**Quality Matters: Harmonizing Non-standardized Wastewater Surveillance Laboratory Results Through OCWA's Innovative Inter-lab Program**

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

Poster #186**Performance Evaluation of the Average Nucleotide Identity (ANI) Test for the Identification of Enteric Bacterial Pathogens**

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

Poster #188**Microbiome Species Profiling at Scale with the Kinnex Kit for Full-length 16S rRNA Sequencing**

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

Poster #191***Pennsylvania Department of Health Bureau of Laboratories Implementation of *Candida auris* PCR Using High Throughput Roche Cobas® 8800**

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

Poster #193***Rapid and Quantitative Detection of Intact *Legionella* Using a Novel Viability Real-Time PCR Assay**

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

Poster #196**An Automated High-Throughput Extraction and Real-Time PCR Solution for Rapid *Candida auris* Detection**

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

Poster #198**Extracting SARS-CoV-2 Population-level Viral Load Data from Cycle Threshold Values and Correlation with Prevalence within a Hospital System**

Presenter: Daniel Jarem, Roche Diagnostics Corporation, daniel.jarem@roche.com

Poster #199***Genomic Epidemiology of *Candida auris* in a Burn Intensive Care Unit**

Presenter: Hannah Barbian, Rush University Medical Center, hannah_j_barbian@rush.edu

Poster #200**Characterization of SARS-CoV-2 Lineages from Indoor Air Samples**

Presenter: Sofiya Bobrovska, Rush University Medical Center, sofiya_bobrovska@rush.edu

Poster #201**Whole Genome Sequencing of an Mpox Outbreak Cluster in Chicago, IL — March–September 2023**

Presenter: Alyse Kittner, Rush University Medical Center, alyse.kittner@cityofchicago.org

Poster #202**Improving Data Quality Through LIMS and Vital Statistics Data**

Presenter: Eddie Gonzalez Loumiet, Ruvos, lmin@ruvos.com

Poster #203***Implementation of a Mobile Lab-in-a-Van to Expand Access to Saliva-based PCR Testing for Respiratory Infections in Underserved Communities**

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

Poster #205**Validation of CDC's LN34 Pan-Lyssavirus Multiplex Real-time RT-PCR Assay for Postmortem Diagnosis of Rabies in Animals**

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

Poster #210**A Two-Hour Microfluidics-Based Workflow for Concurrent Detection and Identification of Multiple Common Upper Respiratory Pathogens**

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

Poster #212**Analysis of Positive Clinical and Colonization Screening Data of AMR Isolates in Iowa**

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

Poster #214**The Iowa Biomonitoring Program: Assessment of Metal and Metalloid Exposure from Well Water in Iowa**

Presenter: Donald Simmons, State Hygienic Laboratory at the University of Iowa, donald-simmons@uiowa.edu

Poster #215***Digital PCR Assay for Identification of Critical β -lactamases Associated with Carbapenem- and ESBL-producing Bacteria**

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

Poster #222**Overview of a Novel HRAM Orbitrap Workflow for Combined 40 PFAS Targeted Testing and Profiling of 40,000+ PFAS Compounds in Samples**

Presenter: Cynthia Grim, ThermoFisher, cynthia.grim@thermofisher.com

Poster #223**Empower the Quantitation of Amino Acids and Acylcarnitine for Inborn Error of Metabolism Using Flow Injection – Orbitrap Mass Spectrometer**

Presenter: Jingshu Guo, ThermoFisher Scientific, jingshu.guo@thermofisher.com

Poster #224**Quantitation of an Oral Fluid Drug Panel Including THC Using with High-resolution Accurate-Mass (HRAM) Mass Spectrometry**

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

Poster #227**DrPH in Public Health and Clinical Laboratory Science and Practice: An Educational Pathway to Address Laboratory Leadership Shortages**

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,
taylerfarrington1206@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