

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 5–7.



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Poster 2

Development of an Avian Influenza H5N1, H7N9, H7N7, H5N6 and H9N2 Analytical Reference Material Set for Diagnostic Surveillance

Presenter: Holly Asbury, American Type Culture Collection (ATCC), hasbury@atcc.org

Poster 3

Development and Validation of a Quantitative Synthetic Analytical Reference Material for the Monkeypox Virus

Presenter: Leka Papazisi, American Type Culture Collection (ATCC), lpapazisi@atcc.org

Poster 4

Rabies Virus Targeted Amplicon Sequencing and Metagenomic Whole Genome Sequencing Method Comparison and Optimization for Routine Surveillance

Presenter: Austin Rueda, Arizona State Public Health Laboratory, austin.rueda@azdhs.gov

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Impaired Driving Surveillance in Arkansas: A Collaboration Between the Arkansas State Crime Laboratory and Glen F. Baker Public Health Laboratory

Presenter: Katie Seely, Arkansas Department of Health, kenton.leigh@arkansas.gov

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Addressing Workforce Challenges in Public Health Laboratories Through ASCP BOC Credentialing

Presenter: Joseph Brendan Baker, ASCP Board of Certification, joseph.baker@ascp.org

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Connecting the Dots: APHL's Technical Assistance Expertise for Data Exchange

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

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Generational Shifts in Public Health Laboratories: Impacts on Workforce Composition, Satisfaction and Retention

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

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Supporting the Food Safety Workforce Through Collaborative Training, WGS and Enteric Workflow Efficiencies, and Retention Efforts

Presenter: Amy Bryant, Association of Public Health Laboratories, amy.bryant@aphl.org

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Building Jurisdictional Programs Will Improve Environmental Microbiology Outbreak Response Readiness

Presenter: Sydney Comet, Association of Public Health Laboratories, sydney.comet@aphl.org

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Strengthening Public Health Laboratory Workforces: The Retention Scorecard

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

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The Evolution of the AIMS Platform as a Prominent Public Health Data Intermediary

Presenter: Eduardo Gonzalez-Loumiet, Association of Public Health Laboratories, eduardo.gonzalez@aphl.org

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Considerations for the Implementation of Wastewater Surveillance for Drugs in Public Health Laboratories

Presenter: Kelsey Granger, Association of Public Health Laboratories, kelsey.granger@aphl.org

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Tracking Phenazine Production in Bacterial Biofilms of *Pseudomonas aeruginosa*

Presenter: Leah Kemper, Association of Public Health Laboratories, leah.kemper@health.ny.gov

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Biorisk Management: Piloting ISO 35001 Across Public Health Laboratories

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

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Advancing Public Health Laboratories Technical and Leadership Skills: APHL's Training Needs Assessments

Presenter: Laila Natiq, Association of Public Health Laboratories, Laila.natiq@aphl.org

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One Health Partnerships and Communication Strategies

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

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Framework Design Study: Nursing Care Facility Wastewater Testing of *Candida auris*

Presenter: Prakrit Saingam, Association of Public Health Laboratories, prakrit.saingam@gmail.com

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A 'Detor' for Electronic Test Orders and Results

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

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Public Health Laboratory Fellowship and Internship Programs: An APHL-CDC Initiative

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

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The Value of Regional Consortia Stands the Test of Time

Presenter: Susanne Norris Zanto, laboratorysolutionz@gmail.com, Laboratory SolutionZ

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Cell Cycle Modulation as a Strategy to Prevent Coronavirus-mediated Syncytia: From Mechanism to Therapeutic Intervention

Presenter: Amaya Calloway, Association of Public Health Laboratories, amayacc01@gmail.com

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A Move! Use of a BIOFIRE® FILMARRAY® Research Configuration Panel for Real-time Surveillance of Respiratory Analytes in Influent Wastewater

Presenter: Cody Firmage, bioMérieux, cody.firmage@biomerieux.com

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Advancements in High Matrix Neutralization for Sample Preparation of Surface, Ground and Wastewater Samples

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

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Comparing Methods for Testing PFAS in Solid Matrices: USEPA 1633, USFDA C-010.03, & European Union Reference Laboratory

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

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Trends in Design, Construction and Operation of Public Health Laboratories

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

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Comparison of Portable XRF and Single Quadrupole ICP-MS for ppm-Level Pb Analysis: Feasibility Study of XRF for High-Concentration Pb Analysis

Presenter: Dinesh Adhikari, California Department of Public Health, Dinesh.adhikari@cdph.ca.gov

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Isotope Dilution UPLC-ESI-MS/MS Method for the Determination of Urinary VOC Metabolites

Presenter: Paramjit Behniwal, California Department of Public Health, paramjit.behniwal@cdph.ca.gov

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Multizone Modeling of a K-5 School Building Using CONTAM: Integrated Ventilation and Air Cleaning Strategies for Wildfire Events

Presenter: Youngbo Won, California Department of Public Health, youngbo.won@cdph.ca.gov

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Radiological Emergency Preparedness at California Department of Public Health

Presenter: Liang Yang, California Department of Public Health, liang.yang@cdph.ca.gov

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Enhancing Antimicrobial Resistance Testing in California

Presenter: Anusha Murshed, California Department of Public Health - Microbial Diseases Laboratory Branch, anusha.murshed@cdph.ca.gov

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Implementation and Validation of a HPLC-PCOX Method for the Determination of PSTs in Shellfish

Presenter: Tyler Stepps, CDPH, Tyler.Stepps@cdph.ca.gov

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Modeling the Potential Spread of Japanese Encephalitis Virus in California via Port Introductions

Presenter: Deidra Lemoine Valenzuela, CDPH - Viral and Rickettsial Disease Laboratory, deidra.lemoine@cdph.ca.gov

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Genomic Sequencing of novel Arenaviruses: Witsand, Bobomene, Omdraaivlei and Mopeia Viruses

Presenter: Jeffery Arcilla, Centers for Disease Control and Prevention, jeffery.arcilla@gmail.com, ak30@cdc.gov

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Evaluation of False-negative β -Lactamase qPCR Results in Carbapenemase-producing Organisms

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

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Repurposing Rapid Antigen Tests to Sequence Circulating SARS-CoV-2 in Milwaukee, Wisconsin, 2024–2026

Presenter: Derek Dang, Centers for Disease Control and Prevention, xtl5@cdc.gov

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Reassessment and Optimization of an LC-MS/MS Method for Detection of Chlorine Exposure Biomarkers in Preparation for an LRN-C Pilot Study

Presenter: Dali Davis, Centers for Disease Control and Prevention, xtl6@cdc.gov

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Undetermined Outbreaks (UnO) Phase One: Developing Metagenomics to Detect Foodborne Illness Outbreaks of Undetermined Etiology Using Outbreaks of Known Etiology

Presenter: Andrew Huang, Centers for Disease Control and Prevention, wwm8@cdc.gov

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Lessons Learned from a Chemical Safety Risk Assessment of Whole Genome Sequencing Workflow in a Public Health Laboratory

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

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Building a Risk Assessment Tracker for Public Health Laboratories

Presenter: Mareena Pitts, Centers for Disease Control and Prevention, xtm3@cdc.gov

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Assessing QuantiFERON-TB Gold Specimen Integrity During Courier Transport to the Laboratory in Nashville, Tennessee

Presenter: Mitchell Ramuta, Centers for Disease Control and Prevention, xtm5@cdc.gov

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Detection and Localization of Influenza A and B RNA in Formalin-fixed, Paraffin-embedded Lung and Trachea Tissues by RT-PCR/In Situ Hybridization

Presenter: Kevin Tsai, Centers for Disease Control and Prevention, uqp2@cdc.gov

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Preparing for PulseNet HMAS Implementation in 2026

Presenter: Amanda (Jo) Williams-Newkirk, Centers for Disease Control and Prevention, igy7@cdc.gov

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

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

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Enhanced Detection of Influenza A Virus in Milk Using Nanotrap[®] Microbiome A Particles

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

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A Scalable Method to Concentrate and Culture *Candida auris* from Wastewater Using Nanotrap Microbiome Particles

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

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High-throughput Mpox Clade Ib Detection in Wastewater

Presenter: Lauren Saunders, Ceres Nanosciences, lsaunders@ceresnano.com

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Investigation of an Increase in *Salmonella* in Wastewater During the 2024 Democratic National Convention

Presenter: Samantha Smith, Chicago Department of Public Health, samantha.smith@cityofchicago.org

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

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

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Utilizing a Common LIMS Framework for Both Environmental and Clinical Divisions Within Public Health Organizations

Presenter: Donald Crossett, Clinisys, donald.crossett@clinisys.com

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Enhancing NCBI Pathogen Detection Cluster Surveillance with NBCI Cluster Tracker

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

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Enhancing SARS-CoV-2 S-Gene Sequencing Coverage Using S-gene Specific Spike-in Primers

Presenter: Kevin Castro-Vital, Colorado Department of Public Health and Environment, kevin.castrovital@state.co.us

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Validation of Group A Streptococcus Emm Typing PCR Using Standard Biotools Biomark x9

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

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

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Implementing CDC Sendout ETOR Orders and Results in Horizon LIMS

Presenter: Corina Stark, Colorado Department of Public Health and Environment, corina.stark@state.co.us

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Applying One Health Principles at a Local Public Health Laboratory

Presenter: Julie Breher, County of San Diego Health and Human Services Agency Public Health Laboratory, julie.breher@sdcounty.ca.gov

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Bioinformatic Approaches for Streamlined Analysis of Viral NGS Data in a Public Health Laboratory Setting

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

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Development of a Novel Multiplex PCR Assay for Rapid Diagnosis of Mpox, Syphilis and Herpes Infections

Presenter: Danilo da Silva, Dallas County Health and Human Services, drsilva90@outlook.com

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

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Presenter: Erin Plaisance, Dallas County Health and Human Services — Public Health Laboratory, Erin.Plaisance@Dallascounty.org

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Streamlining Laboratory Processes: The Impact of LIS Modernization on Turnaround Times at DCHHS-PHL

Presenter: Makayla Shabazz, Dallas County Health and Human Services, Public Health Laboratory, makayla.shabazz@dallascounty.org

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Presenter: Shaila Borna, Dallas County Public Health Laboratory, shaila.borna@dallascounty.org

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Success and Challenges in the World of Radiochemistry as a Fellow

Presenter: Zoe Watkins, DCLS, zoewatkins1204@gmail.com

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Presenter: Jessica Rowell, Deloitte Consulting LLP, jerowell@deloitte.com

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Implementation of a Bioinformatics SOP for Improved Functionality of Bioinformatics in a Public Health Laboratory

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

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Antimicrobial Activity of Non-regulatory Polyherbal Formulation on Clinical Isolates — *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus*: An In Vitro Study

Presenter: Kipazze Madaki, East Milton Keynes Primary Care Network, Kipazzemadaki@yahoo.com

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Tracking Trouble: Using Wastewater Monitoring to Track Pathogens During Hurricane Season, FL 2024

Presenter: Brenna McGruder Rawson, Florida Bureau of Public Health Laboratories- Jacksonville, brenna.mcgruderrawson@flhealth.gov

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Workflow Considerations for Efficient Molecular Virology Testing

Presenter: Darrell Gibson Jr, Florida Department of Health - Tampa, dgibs040@fiu.edu

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Scaling Up Genomic Surveillance Capacity for Better Epidemic Preparedness and Response in the WHO African Region

Presenter: Zoumana Isaac Traore, Georgetown University/World Health Organization, zt118@georgetown.edu

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Wastewater Monitoring Provides a Rapid, Cost-effective Approach to Assess Community-wide H5 Avian Influenza and Longitudinal Testing

Presenter: Lexi Robison, GT Molecular, lrobison@gtmolecular.com

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Investigating the Gasdermin- B Gene to Address Early-onset Asthma in Adolescent African Americans

Presenter: Morgan Tongue, Howard University, morganktongue@gmail.com

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Performance of Multiple NGS Methods for Genomic Characterization of Co-circulating Respiratory Viruses

Presenter: Rita Stinnett, Illumina Medical & Scientific Affairs, rstinnett@illumina.com

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Presenter: Mario Saucedo, Kentucky Department for Public Health Division of Laboratory Services, mario.saucedo@ky.gov

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Cultivating Engagement: Inspiring Students and Connecting Communities

Presenter: Rachel Zinner, Kentucky Division of Laboratory Services, rachel.zinner@ky.gov

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Presenter: Sydney Bailey, Maryland Department of Health Laboratories Administration, sydney.bailey@maryland.gov

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Presenter: Jesus Bedolla, Maryland Department of Health Laboratories Administration, jesus.bedolla@maryland.gov

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Presenter: Victoria Campodonico, Maryland Department of Health Laboratories Administration, victoria.campodonico@maryland.gov

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Identifying New PFAS Compounds in Maryland's Drinking Water Using Non-targeted Analysis

Presenter: Sarah Fleegal, Maryland Department of Health Laboratories Administration, saraha.fleegal@maryland.gov

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Presenter: Oluwatosin Ijabadeniyi, Maryland Department of Health Laboratories Administration, Baltimore, tosynolu@yahoo.com

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Automation of PulseNet's Rapid Quarter Volume DNA Library Preparation Method

Presenter: Brandon Sabina, Massachusetts Department of Public Health, brandon.sabina@mass.gov

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Presenter: Zachary Thompson, Massachusetts Department of Public Health, zachary.thompson@mass.gov

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Medical Misogyny: An Epidemiological Review of Societal Stress on Women's Mental Health

Presenter: Madelyn Quinn, MCPHS, maddyquinn02@gmail.com

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Medical Misogyny: Epidemiologic Examination of Kang's Vegetarian and Murakami's Sleep

Presenter: Madelyn Quinn, MCPHS, madelynquinnpremed@gmail.com

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Ergonomic, Green and ADA Considerations for Renovation and Construction

Presenter: Drew Fayram, Merrick & Company, drew.fayram@merrick.com

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Measurement of BHA, t-BHQ and Phase II Metabolites (t-BHQ- glucuronide and -sulfate) in Rat Serum by Liquid Chromatography Tandem Mass Spectrometry

Presenter: Alyssa Deeds, Michigan State University Diagnostic Laboratory, alyssa_deeds@aol.com

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Simultaneous Extraction of Fat-soluble Vitamins A, E and D Metabolites (25OHD2 and 25OHD3) in Animal Tissue Followed by Quantitation with Liquid Chromatography Tandem Mass Spectrometry

Presenter: Zoe Rice, Michigan State University Veterinary Diagnostic laboratory, zrice20@gmail.com

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Simplification and Automation of a Biological Sequencing Workflow

Presenter: Kenny Yeh, MRIGlobal, kyeh@mriglobal.org

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Use of Censored and Contaminated Data to Generate Reference Intervals Through Indirect Approaches

Presenter: Madelyn Marsh, MSU Veterinary Diagnostic Laboratory, madelynfmarsh@gmail.com

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Use of Rolling Medians to Evaluate Data Suitability for Indirect Reference Interval Generation: A Case Example of Canine Liver Copper

Presenter: Madelyn Marsh, MSU Veterinary Diagnostic Laboratory, madelynfmarsh@gmail.com

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Beryllium Exposure and Workplace Medical Surveillance

Presenter: Lisa Barker, National Jewish Health, barkerl@njhealth.org

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Rapid Detection and Response to a Local Brucellosis Cluster in North Carolina

Presenter: Leticia Barton, NC State Laboratory of Public Health, Leticia.Barton@dhhs.nc.gov

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Response of the Nebraska Public Health Laboratory to a Sensitive Public Records Request

Presenter: Peter Iwen, Nebraska Public Health Laboratory, piwen@unmc.edu

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Detection of the Lassa Fever Virus by the Nebraska Public Health Laboratory

Presenter: Peter Iwen, Nebraska Public Health Laboratory, piwen@unmc.edu

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Rare Case of Septicemia Caused by *Salmonella enterica* serotype Gaminara Linked to Exposure to a Pet Bearded Dragon

Presenter: Michael Wiley, Nebraska Public Health Laboratory, mike.wiley@unmc.edu

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Genomic Diversity, Antibiotic Resistance and Stress Adaptation of *Salmonella* Isolates: Insights from a Four-year Surveillance Study in New Hampshire

Presenter: Aron Diamond, New Hampshire Public Health Labs, aron_diamond@yahoo.com

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Development of Modified EPA Method 1668 for the Detection of 209 PCB Congeners in Fish Tissues

Presenter: Keerthi Balaji, New Jersey Department of Health, keerthibalaji2024@gmail.com

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Short-term and Long-term Frameworks for Public Health Laboratories Responding to the Public Health Mercury Crisis

Presenter: Eric Bind, New Jersey Department of Health, Eric.Bind@doh.nj.gov

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How the NJDOH-ECLS Uses the CDC-APHL Fellowship Program to Increase Capacity and Improve Public Health Service Provision

Presenter: Eric Bind, New Jersey Department of Health, Eric.Bind@doh.nj.gov

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Conducting Subject Matter Expert Calls with Study Participants with Elevated Results from the Ongoing NJHANES Biomonitoring Study

Presenter: Eric Bind, New Jersey Department of Health, Eric.Bind@doh.nj.gov

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Data Modernization in Practice: Streamlining Large-scale Environmental Testing for Statewide Childcare Drinking Water Through Integration of REDCap and LIMS

Presenter: Colleen Donohoe, New Jersey Department of Health, Colleen.Donohoe@doh.nj.gov

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Strategic Modernization of Public Health and Environmental Laboratory's LIMS: A Case Study of NJDOH-ECLS's Transition from ELEMENT® to Clinisys®

Presenter: Chang Ho Yu, New Jersey Department of Health, Chang.Yu@doh.nj.gov

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Survey Weighting Methods and Initial Health Outcome Findings from the New Jersey Health and Nutrition Examination Survey (NJHANES)

Presenter: Chang Ho Yu, New Jersey Department of Health, Chang.Yu@doh.nj.gov

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Building a Public Health Laboratory STEM Program for High School Students in New Jersey

Presenter: Tyler Mizglewski, New Jersey Department of Health - Public Health and Environmental Laboratories, Tyler.Mizglewski@doh.nj.gov

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Advancing Public Health Laboratory Innovation Through Strategic Data Science Internships

Presenter: Satyam Patel, New Jersey Department of Health - Public Health and Environmental Laboratories, Satyam.Patel@doh.nj.gov

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Assessing Data Modernization Skill Level in New Jersey Public Health Laboratory Personnel

Presenter: Satyam Patel, New Jersey Department of Health - Public Health and Environmental Laboratories, Satyam.Patel@doh.nj.gov

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VectorSurv Helper: Automating the Transfer of Data from PCR Instruments to an Online Database

Presenter: Fredrick Nindo, New Jersey Department of Health- Public Health and Environmental Laboratories, fredrick.nindo@doh.nj.gov

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Detecting and Measuring Siloxane Isomer Contaminants in Various Water Sources

Presenter: Maanal Chowdhury, New York State Department of Health, maanal2001@gmail.com

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Pseudomonas Aeruginosa Clinical Isolates Dependence on Autoinducers for Quorum Sensing Gene Regulation

Presenter: Elizabeth Key, New York State Department of Health, Elizabeth.key@health.ny.gov

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Enhancement of a Carbapenemase-producing Organism Colonization Screening Workflow: Decreasing Time, Increasing Data and Maximizing Resource Capabilities

York State Department of Health, Wadsworth Center, majie.foster@health.ny.gov

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

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

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Enhancement of Newborn Screening Reporting Interpretations for Severe Combined Immunodeficiency (SCID) in North Carolina

Presenter: Jared Clausen, North Carolina State Laboratory of Public Health, jared.clausen@dhhs.nc.gov

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Implementation of Illumina Clarity LIMS: Experiences and Perspectives from the NC Public Health Lab

Presenter: Jordan Ferguson, North Carolina State Laboratory of Public Health, jordan.ferguson@dhhs.nc.gov

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Evaluation and Verification of the Diasorin Simplexa C. auris Direct Assay for Colonization Screenings: The North Carolina State Laboratory Experience

Presenter: William Glover, II, North Carolina State Laboratory of Public Health, William.Glover@dhhs.nc.gov

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Mycoplasma genitalium Prevalence Among Individuals Seeking Care in New York City Sexual Health Clinics During June 2022 – July 2023

Presenter: Joangela Nouel, NYC Public Health Laboratory, jnouel@health.nyc.gov

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Automated Detection of Rabies Virus Using the LN34 qRT-PCR Assay with the Panther Fusion Open Access System

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

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Inorganic Arsenic Speciation by High Performance Liquid Chromatography Inductively Coupled Mass Spectrometry in Environmental Matrices

Presenter: Avery Hernandez, Oregon Department of Environmental Quality, avery.hernandez@deq.oregon.gov

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Using Microbial Source Tracking Methods (qPCR) to Identify Potential Contributors to Fecal Pollution in Three Oregonian Watersheds

Presenter: Kat Maloney, Oregon Department of Environmental Quality, kat.maloney@deq.oregon.gov

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Occurrence of Norovirus and Other Viral Gastroenteritis Pathogens in Sporadic Medically-attended Acute Gastroenteritis

Kaiser Permanente Northwest, 2023–2024.: Laura Tsaknaridis, Oregon State Public Health Lab, Laura.j.tsaknaridis@OHA.oregon.gov

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Manage Up: Lead from any Position in a Public Health Laboratory

Presenter: Caitlin Miranda, Oregon State Public Health Lab, Caitlin.Miranda@oha.oregon.gov

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Enhancing Courier Services for Preparedness and Laboratory Efficiency

Presenter: Sarah King, Oregon State Public Health Laboratory, sarah.m.king@oha.oregon.gov

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

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

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The Oregon State Public Health Laboratory LIMS Replacement RFP Story

Presenter: Michael Peckham, Oregon State Public Health Laboratory, michael.peckham@odhsoha.oregon.gov

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The L-SIP: Lessons Learned from a Public Health State Laboratory System Assessment

Presenter: Hanna Nguyen, Oregon State Public Health Laboratory, hanna.nguyen@odhsoha.oregon.gov

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Optimizing Digital PCR Multiplexing for Wastewater Surveillance in Oregon

Presenter: David Mickle, Oregon State University, mickled@oregonstate.edu

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Win-Win: Effective Laboratory Internships with Undergraduate Students

Presenter: Wendy Woothtakewahbitty, Oregon State University,
wendy.woothtakewahbitty@oregonstate.edu

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Fast and Efficient LC-MS/MS Analysis for PFAS Biomonitoring Using Microelution SPE

Presenter: Stephanie Marin, Phenomenex, stephaniem@phenomenex.com

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Advancing OD2A Biosurveillance with Automated LC-MS/MS Workflows and Standardized Materials for Public Health Laboratories

Presenter: Isabel Ritter, PinPoint Testing LLC, Isabel.Ritter@pinpointtesting.com

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Validation Study of GoTaq® Legionella Purification and qPCR Detection Workflow

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

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Validation of Multiplex RT-qPCR Assays Detecting Respiratory Syncytial Virus (RSV), Influenza A Virus, Influenza B Virus and SARS-CoV-2 in Wastewater

Presenter: Dongping Ma, Promega Corporation, dongping.ma@promega.com

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Validation of a Novel Sample Collection-to-detection Workflow Using PrimeStore® MTM, Pathogen Total Nucleic Acid Kit, and PrimeMix® MTB

Presenter: Doug Wieczorek, Promega Corporation, doug.wieczorek@promega.com

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Characterization and Epidemiology of Non-Respiratory *Corynebacterium diphtheriae* in an Oregon Based Multi-Hospital System

Presenter: Victoria Wilson, Providence Health & Services, victoria.wilson3@providence.org

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Structure and Function Investigation of Transcription Factor AbmR from *Mycobacterium tuberculosis*

Presenter: Kathryn Fisher, Public Health Laboratory Fellowship Program: An APHL-CDC Initiative,
Kathryn.Fisher@HEALTH.ny.gov

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Depletion of Host DNA Enables Deeper Sequencing of Microbial Gene Content and Antimicrobial Resistance

Presenter: Dominic O'Neil, QIAGEN GmbH, dominic.oneil@qiagen.com

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High-throughput Genomic DNA Extraction from Dried Blood Spots and Library Preparation for Newborn Sequencing Using Quantabio's sparQ DBS Solutions

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

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Indoor Air Monitoring of Respiratory Viruses Correlates with Clinical Percent Positivity

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

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Establishing Genomic Epidemiology of Group A *Streptococcus* in Chicago

Presenter: Erin P Newcomer, Rush University Medical Center, erinpnewcomer@gmail.com

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Using Whole Genome Sequencing and Cluster Identification to Understand Transmission Patterns of *C. auris* Among Chicago Healthcare Facilities

Presenter: Erin Newcomer, Rush University Medical Center, Erin_P_Newcomer@rush.edu

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Mobilizing Community-driven Public Health Response: Increasing Access to Diagnostic Testing for Underserved and Uninsured Individuals in Connecticut Through Lab-in-a-van Partnerships

Presenter: Brittany Choate, SalivaDirect, Inc., brittany@salivadirectinc.org

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Validation of a Group A *Strep* *emm* Typing Pipeline

Presenter: Rachel Cox, South Carolina Public Health Laboratory, coxrs@dph.sc.gov

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Pathogen Recovery from CIDT Positive Stool Samples in South Dakota 2023–2024

Presenter: Christopher Carlson, South Dakota Public Health Laboratory, chris.carlson@state.sd.us

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Effective Mosquito Surveillance and Mitigation Efforts to Control Arboviral Activity in Southern Nevada (2024)

Presenter: Hong Yuan Kan, Southern Nevada Health District, kan@snhd.org

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Assessing Aerobic Treatment Units for Mosquito Habitat Compatibility and Pollutants

Presenter: Heather Penton, St. Tammany Parish Mosquito Abatement District, penton.heather@gmail.com

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Timely Detection and Subtyping of Upper Respiratory Pathogens Using a Microfluidics-based Workflow

Presenter: Brad Mire, Standard BioTools, brad.mire@standardbio.com

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Time to Unbox a New Assay for Mpox

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

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Real-time Detection of *Candida auris* in Hospital Wastewater Using Digital PCR

Presenter: Lauren Kloft, State Hygienic Laboratory at the University of Iowa, lauren-kloft@uiowa.edu

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Evaluation of *Legionella* Multiplex PCR Assay as Screening Tool to Detect *Legionella* in Environmental Samples

Presenter: Valerie Reeb, State Hygienic Laboratory at the University of Iowa, valerie-reeb@uiowa.edu

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Presenter: Stephanie Cossette, Streck, scossette@streck.com

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Presenter: Brandy Cartmell, Tennessee Department of Health, brandy.d.cartmell@tn.gov

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Presenter: Katie Jones, Tennessee Department of Health, Katie.jones@tn.gov

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Presenter: Kelly Orejuela, Tennessee Department of Health, Kelly.Orejuela@tn.gov

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Presenter: Kelly Orejuela, Tennessee Department of Health, Kelly.Orejuela@tn.gov

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Protecting Our Waters: Assessing Tennessee's Water Testing Landscape after Hurricane Helene

Presenter: Elisebeth Trelfa, Tennessee Department of Health- Division of Laboratory Services, elisebeth.trelfa@tn.gov

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Presenter: Mytasia Stone, Tennessee Department of Health Laboratory Services, mytasias@gmail.com

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Presenter: Tanya Cooper, Tennessee Department of Health, Division of Laboratory Services, tanya.cooper@tn.gov

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Presenter: Julie Viruez, Tennessee Department of Health, Division of Laboratory Services, julie.viruez@tn.gov

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Presenter: Kala Priestler, Tennessee Dept of Health, Division of Laboratory Services, kala.priester@tn.gov

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Presenter: Jyoti Narayana, Tennessee Health Department, jyoti.narayana@tn.gov

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Presenter: Anita Keese, Texas Department of State Health Services - Public Health Laboratory Division, anita.keese@dshs.texas.gov

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Presenter: Nabil Latif, TEXAS DSHS, nabil.Latif@dshs.texas.gov

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

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Presenter: DeAnn Prettyman, The St. John Group, dprettyman@tsjg.com

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

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Presenter: Courtney Patterson, Thermo Fisher Scientific, courtney.patterson@thermofisher.com

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Presenter: Shawn Freed, Jr., University of Nebraska Medical Center, shawnfreed@creighton.edu

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Presenter: Grace Dickey, University of Texas Health Science Center at Tyler, Grace.Dickey@uthct.edu

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Presenter: Emily Snavelly, University of Virginia Health, xjx4nh@uvahealth.org

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Presenter: Melissa Schussman, University of Wisconsin - Milwaukee, School of Freshwater Sciences, schussm2@uwm.edu

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Presenter: Amy Ellis, University of Wisconsin Madison, ellis2@wisc.edu

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Presenter: Paola Hernandez, UT Health Houston School of Public Health, Brownsville campus, paola.a.hernandez@uth.tmc.edu

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Presenter: Michelle Crum, UT Tyler School of Medicine and Public Health Lab of East Texas, michelle.crum@uttyler.edu

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Presenter: Brooke Seitter, Utah Public Health Lab, uphlfellowbs1@utah.gov

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Presenter: Kelly Oakeson, Utah Public Health Laboratory (Unified State Laboratory), koakeson@utah.gov

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Presenter: Christopher Fajardo, Utah Public Health Laboratory, cfajardo@utah.gov

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

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Presenter: Chanc VanWinkle Orzell, Vermont Agency of Agriculture, chance.vanwinkleorzell@vermont.gov

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Presenter: Kathy Seiler, Vermont Department of Health Laboratory, kathleen.seiler@vermont.gov

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Can We Build It? Yes, We Can! Overdose Biosurveillance in Vermont

Presenter: Suzanne Stanton, Vermont Department of Health Laboratory, suzanne.stanton@vermont.gov

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Harnessing Chemical Response Networks in Environmental Emergency Scenarios

Presenter: Amanda Woods, Virginia Division of Consolidated Laboratory Services,
amanda.woods@dgs.virginia.gov

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Optimization and Evaluation of Cell Lysis and DNA Purification Methods for the Enumeration of Legionella Species in Environmental Water

Presenter: Yadira Farias Valdovinos, Wadsworth Center, yadira.farias@health.ny.gov

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Highly Multiplex Amplicon Sequencing of Salmonella in New York State

Presenter: Jomeeka Meeks, Wadsworth Center, Jomeeka.Meeks@health.ny.gov

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Determining Mercury Species in Whole Blood by Isocratic Liquid Chromatography Coupled to Vapor Generation Inductively Coupled Plasma Tandem Mass Spectrometry

Presenter: Patrick J. Parsons, Wadsworth Center – NYSDOH, patrick.parsons@health.ny.gov

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Identifying Inhibitors of Vibrio Species Quorum Sensing Transcriptional Regulators

Presenter: Annmarie Chang, Wadsworth Center, New York State Department of Health,
annmarie.chang@health.ny.gov

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Molecular Detection of Antimicrobial Resistance in Pathogenic Neisseria Species

Presenter: Kara Mitchell, Wadsworth Center, New York State Department of Health,
kara.mitchell@health.ny.gov

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Implementing Dried Blood Spots for Confirmatory Hepatitis C Virus RNA Testing: Training and Collaboration Building with Other Public Health Labs

Presenter: Renee Hallack, Wadsworth Center/NYSDOH, renee.hallack@health.ny.gov

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Accelerating Informatic Workflows: Google Cloud Platform with NextFlow Tower Integration

Presenter: Spencer Bruce, Wadsworth Research Center, New York State Department of Health,
spencer.bruce@health.ny.gov

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Accelerating Data Analysis and Cutting Costs: Harnessing Business Intelligence (BI) and LIMS for Operational Efficiency

Presenter: Nevada Ruehlen, Washington Department of Health, Public Health Laboratories,
nevada.ruehlen@doh.wa.gov

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Laboratory Procurement Requests, Purchasing and Payments, Oh My: Enhancing Procurement and Business Workflow Visibility in the Washington Public Health Laboratories

Presenter: Mohamed Gomaa, Washington State Department of Health, Public Health Laboratories, mohamed.gomaa@doh.wa.gov

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60% Access Antibiotics: Where Are We in Washington State?

Presenter: Mohamed Gomaa, Washington State Department of Health, Public Health Laboratories, mohamed.gomaa@doh.wa.gov

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Determination of Glyphosate, Aminomethylphosphonic Acid (AMPA) and Glufosinate in Drinking Water Using Direct Analysis by LC-MS/MS

Presenter: Stuart Oehrle, Waters Corporation, stuart_oehrle@waters.com

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Harnessing the Power of Mass Spectrometry and Automation to Reduce Sample Size, Sample Preparation Time and Increase Laboratory Efficiency

Presenter: Stuart Oehrle, Waters Corporation, stuart_oehrle@waters.com

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Identifying COVID Surges in Wastewater from Limited Sampling

Presenter: Timothy Driscoll, West Virginia University, timothy.driscoll@mail.wvu.edu

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Wastewater Sequencing of SARS-CoV-2 from Small Sewersheds

Presenter: Timothy Driscoll, West Virginia University, timothy.driscoll@mail.wvu.edu

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Comparison of the Kingfisher Apex and Kingfisher Flex Extraction Instruments for Influenza, SARS-CoV-2 and Measles PCR

Presenter: Madison Carlson, Wisconsin State Laboratory of Hygiene, madison.carlson@slh.wisc.edu

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Indecision 2025: A Comparison of the Thermo Fisher QuantStudio 5 Dx and the Bio-Rad CFX Opus 96 Dx Real-time PCR Instruments

Presenter: Madison Carlson, Wisconsin State Laboratory of Hygiene, madison.carlson@slh.wisc.edu

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Wastewater Surveillance of Mpox: Method Development and Preliminary Surveillance Data

Presenter: Griffin Knuth, Wisconsin State Laboratory of Hygiene, griffin.knuth@slh.wisc.edu

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

Presenter: Nicholas Mack, Wisconsin State Laboratory of Hygiene, nicholas.mack@slh.wisc.edu

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Validation of Multiplexed PCR Method for the Detection of β -Lactamase Genes in Carbapenem Resistant Gram-negative Bacteria

Presenter: Patricia Ross, Wisconsin State Laboratory of Hygiene, tricia.ross94@gmail.com

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Improving Performance of Methods for Pathogen Surveillance in Wastewater — A Proficiency Testing (PT) Program for SARS-CoV-2, Influenza and RSV

Presenter: Martin Shafer, Wisconsin State Laboratory of Hygiene, University of Wisconsin-Madison, mmshafer@wisc.edu

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Bactopia v4: Adapting to Nextflow's Future with Enhanced Efficiency and Compatibility

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

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Occupational and Behavioral Influences on Environmental Chemical Exposure in the US Population: Insights from NHANES on Perchlorate, Nitrate and Thiocyanate

Presenter: Nour el houda Keddari, Zhengzhou University, keddariapple1105@icloud.com

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A Comprehensive Workflow for Monitoring Pathogens and Antimicrobial Resistance in Wastewater: From Sample Collection to Data Analysis

Presenter: Xiaoxiao Cheng, Zymo Research Corporation, xcheng@zymoresearch.com