



Antimicrobial Resistance Recap

Featured Antimicrobial Resistance Sessions

Antimicrobial Resistance Testing in Diagnostic Laboratories - A Pre-Conference Workshop

In this full-day workshop, participants learned about various methodologies used in clinical and public health laboratories for antimicrobial resistance testing, reviewed the new CAP accreditation requirements, and learned about resources available to laboratories for the validation of the most current CLSI antibiotic susceptibility testing (AST) breakpoints. Speakers also led a guided exercise on breakpoint implementation.

Speakers:

- **Patricia Simner, PhD, D(ABMM)**, Johns Hopkins University School of Medicine
- **Amelia Bhatnagar, MPH**, Centers for Disease Control and Prevention
- **Paula Snippes Vagnone, MT(ASCP)**, Minnesota Department of Health
- **Romney Humphries, PhD, D(ABMM), M(ASCP)**, Vanderbilt University Medical Center



Pre-conference speakers (L-R) Romney Humphries, Patricia Simner, Amelia Bhatnagar and Paula Snippes Vagnone

A Late Breaker Session - Diving into Late Breaking Infectious Disease Issues

In this late breaker session, a presentation was given on the identification of a novel strain of multidrug non-susceptible *Neisseria gonorrhoeae* with reduced susceptibility to ceftriaxone, cefixime, and azithromycin, and resistance to ciprofloxacin, penicillin, and tetracycline; this marks the first isolate identified in the United States to demonstrate resistance or reduce susceptibility to all drugs recommended for treatment. Additionally, another presentation focused on identifying the source of the multistate outbreak of the Verona integron-mediated metallo beta-lactamase and Guiana extended-spectrum beta-lactamase-producing carbapenem-resistant *Pseudomonas aeruginosa* (VIM-GES-CRPA). This outbreak is still ongoing but has identified artificial tears as the common exposure.



Moderator Marc Couturier at the late breaker session

Moderator: **Marc Couturier, PhD, D(ABMM)**, ARUP Laboratories **Identification of Multi-Drug Non-Susceptible Gonorrhea in Massachusetts: A Public Health Laboratory Perspective**

Speaker: **Caryn Ivanof, BS, M(ASCP)CM**, Massachusetts Public Health Laboratory

- Tracking the Source of a VIM-positive *Pseudomonas aeruginosa* Outbreak
- Speaker: **Marissa Grossman, PhD**, Centers for Disease Control and Prevention



Antimicrobial Resistance Recap

Other Conference Sessions Including Antimicrobial Resistance Topics

The Resistance Is NOW! Identifying Antimicrobial Resistance (AMR) from Sample to Insight

Speakers: Joshua Boston and John Chuckalovcak, QIAGEN

Antimicrobial Case Studies: No One Can Resist!

Moderator: Lars Westblade, PhD, D(ABMM), Weill Cornell Medicine

Can We Stay Positive Please? Case Studies of Gram-positive Bacterial Antimicrobial Resistance

Speaker: Mimi Precit, PhD, D(ABMM), Providence Health and Services

Don't Be Negative! Case Studies of Gram-Negative Bacterial Antimicrobial Resistance

Speaker: Eric Ransom, PhD, D(ABMM), University Hospitals Cleveland Medical Center

At Yeast There is Hope, Right? Case Studies of Fungal Antimicrobial Resistance

Speaker: Shawn Lockhart, PhD, Centers for Disease Control and Prevention

Wastewater Surveillance: Building Systems That Lead to Actionable Data

Wastewater Surveillance for *C. auris*: A Novel Tool for Early Detection in the Community?

Speaker: Alessandro Rossi, PhD, Utah Public Health Laboratory

Pushing Back the Frontiers of Science: A Review of This Year's Literature

State of the Science: Antimicrobial Resistance

Speaker: Paula Snippes Vagnone, MT(ASCP), MN Department of Health

Responding to Emerging Infectious Diseases

Genomic Investigation of Two Simultaneous *Candida auris* Outbreaks in Southern Nevada

Speaker: Andrew Gorzalski, PhD, Nevada State Public Health Laboratory

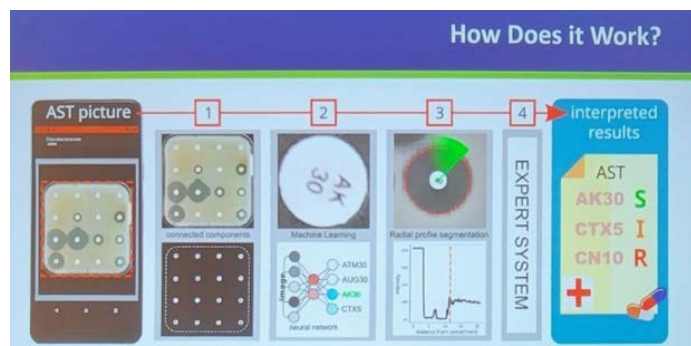


Image from the presentation "State of the Science: Antimicrobial Resistance"



Speaker Alessandro Rossi



Antimicrobial Resistance Recap

Posters Featuring Antimicrobial Resistance

High-Throughput, Automated Detection of *Candida auris* on the Cobas(R) 6800/8800 with the Cobas(R) omni Utility Channel

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

Multicenter Evaluation and Validation of a Customized MIC Panel for Antimicrobial Susceptibility Testing of *Mycobacterium tuberculosis*

Presenter: Marie-Claire Rowlinson, Wadsworth Center, NYSDOH, Albany, NY, marie-claire.rowlinson@health.ny.gov

Centralizing and Reporting AMR Data in Ethiopia

Presenter: Hewan Moges, APHL, hewan.moges@aphl.org

First Report on the Emergence of Carbapenemase-producing Enterobacterales (CRE) Harboring blaNDM-7 in the State of Georgia

Presenter: Nandhakumar Balakrishnan, Georgia Public Health Laboratory, Decatur, GA, nandhakumar.balakrishnan@dph.ga.gov

Genomic Diversity of New Delhi Metallo- β -lactamase (NDM)-Producing Carbapenem-resistant Enterobacterales in Georgia

Presenter: Nandhakumar Balakrishnan, Georgia Public Health Laboratory, Decatur, GA, nandhakumar.balakrishnan@dph.ga.gov

Genomic Surveillance of Antimicrobial Resistant Pathogens in a Nonregional ARLN Laboratory

Presenter: Stephen Dietrich, Michigan Department of Health and Human Services, Lansing, MI, dietrichs@michigan.gov

Broad, Genomic AMR Surveillance with an Efficient, Probe-capture NGS Panel

Presenter: Robert Schlager, Illumina, San Diego, CA, schlager@gmail.com



AMR Pre-conference participants



Speaker Eric Ransom