

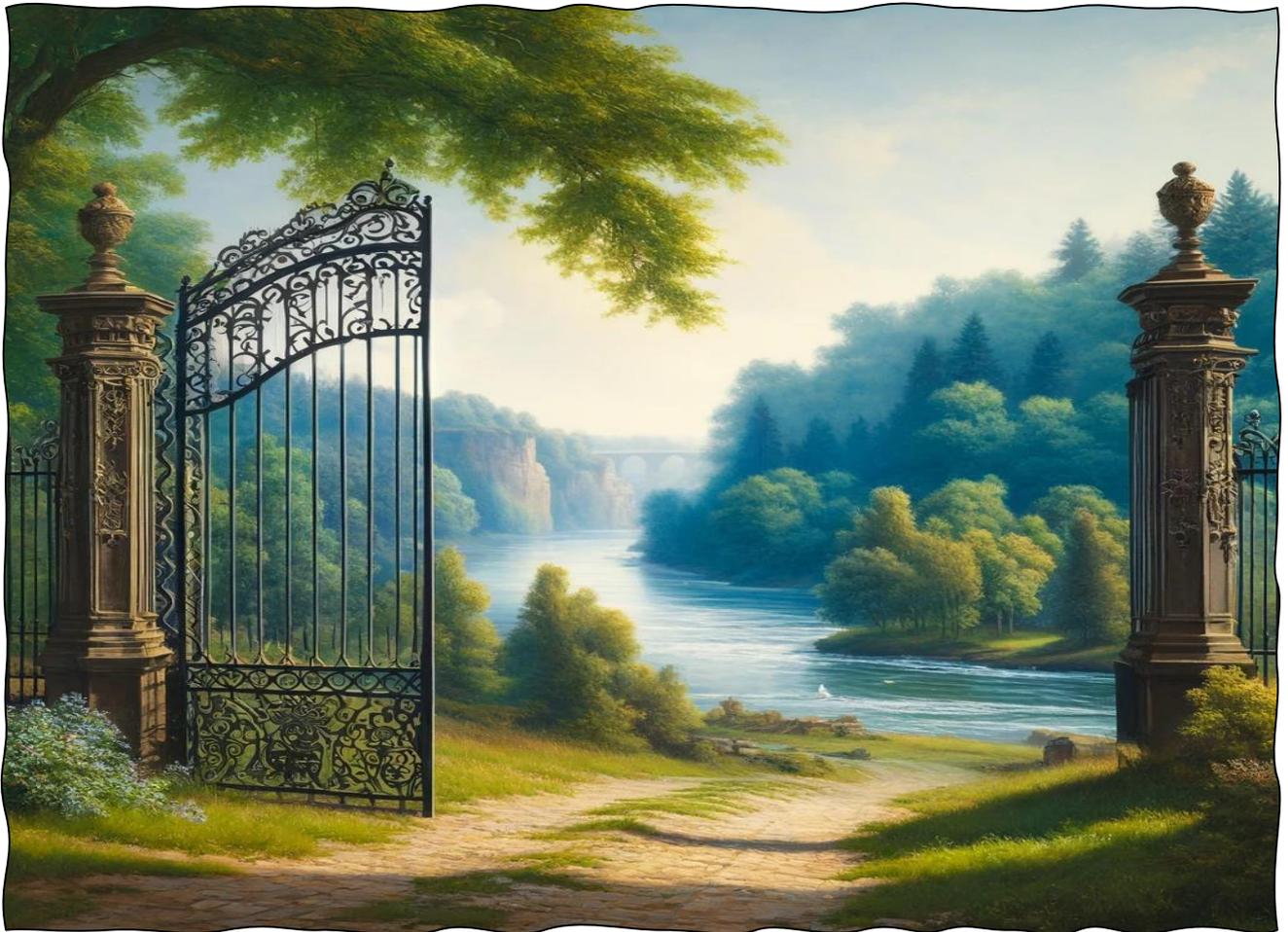


NACMID

Northeast Association for Clinical
Microbiology and Infectious Disease

NACMID's Thirty Seventh Annual Meeting presents:

Opening the Gate to Advancements in Clinical Microbiology!



Nashua Sheraton

11 Tara Blvd

Nashua, NH 03062

September 23 & 24, 2024

Session Faculty & Presenters

Alexandra Bryson, PhD, D(ABMM)

Associate Director of Clinical Microbiology
Assistant Professor of Pathology
Virginia Commonwealth University Health System
Richmond, VA

Sara W. F. Geffert, MD, MS, D(ABMM), M(ASCP)

Associate Director, Microbiology Laboratory
Assistant Professor of Pathology & Laboratory Medicine, and
Internal Medicine
Lifespan Academic Medical Center, The Warren Alpert Medical
School of Brown University
Providence, RI

Phyu Thwe, PhD, D(ABMM), MLS (ASCP)^{CM}

Associate Director, Infectious Disease Testing
Montefiore Medical Center
Assistant Professor, Albert Einstein College of Medicine
Bronx, NY

Ken Oliveira

America's Applications Manager
Bruker Microbiology & Infection Diagnostics
Billerica, MA

Isabella Martin, MD, D(ABMM)

Medical Director of Microbiology
Dartmouth Health, Geisel School of Medicine
Lebanon, NH

Christi Wojewoda, MD, FCAP

Director, Clinical Microbiology Laboratory
UVM Medical Center
Professor, Larner College of Medicine, University of Vermont
Burlington, VT

David W. Kubiak, PharmD, BCPS, BCIDP, FIDSA

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Clinical Pharmacy Faculty – Infectious Diseases
Brigham and Women's Hospital - Boston, MA

Eric M. Gillett, PharmD, BCIDP

Infectious Diseases Pharmacist
Brigham and Women's Hospital - Boston, MA

Kristen L. Smith, PhD, D(ABMM)

Lead Medical Advisor
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Gongyi Shi, PhD

Director of Scientific Affairs
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Nicole Pecora MD, PhD, D(ABMM)

Associate Director of Clinical Microbiology
Brigham and Women's Hospital
Harvard Medical School - Boston, MA

Cheston B. Cunha, MD, FACP, FIDSA, FSHEA

Associate Professor of Medicine
Medical Director, Antimicrobial Stewardship Program
Rhode Island Hospital & Miriam Hospital
Program Director, Infectious Diseases Fellowship
Alpert Medical School of Brown University
Providence, RI

Marisa C. Nielsen, PhD, D(ABMM), MS, SM (ASCP)^{CM}, CLS

Assistant Director, Clinical Microbiology and Assistant
Professor, Pathology and Laboratory Medicine
Boston Medical Center
Boston University Chobanian & Avedisian School of Medicine
Boston, MA

Kait Hess Jiminez, MS

Senior Director – Lab and R&D
Biobot Analytics
Cambridge, MA

Alka Shukla, PhD

Clinical and Scientific Liaison
DiaSorin
Stillwater, MN

Rebecca Zaffini, MT(ASCP)

Technical Specialist
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Michelle Lee, PharmD

Clinical Pharmacist Specialist, Infectious Diseases and
Antimicrobial Stewardship
Rhode Island Hospital - Providence, RI

Alexander Pyden, MD, MPH, D(ABMM), FCAP, FASCP

Medical Director of Microbiology
Lahey Hospital & Medical Center
Clinical Assistant Professor of Anatomic and Clinical Pathology
Tufts University School of Medicine
Beverly Hospital | Mount Auburn Hospital
Burlington, MA

Nancy S. Miller, MD

Clinical Professor, Pathology & Lab Medicine
Boston University
Chief & Vice Chair, Pathology & Lab Medicine
Medical Director, Clinical Microbiology & Molecular Diagnostics
Boston Medical Center - Boston, MA

Michael A. Pentella, Ph.D., M.S., SM(ASCP), CIC, D(ABMM)

Clinical Professor at the University of Iowa, College of Public
Health and Director of the Iowa State Hygienic Laboratory
Iowa City, IA

Jim Griffith, PhD, CLS(NCA)

Chancellor Professor Emeritus
University of Massachusetts- Dartmouth
Managing Partner, Forensic DNA Associates
Dartmouth, MA

Christopher Doern, PhD, D(ABMM)

Director of Microbiology at VCU Health System
Co-Chair of Laboratory Utilization at VCU Health System
Richmond, VA

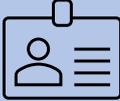
Shoolah Escott, MS, MT(ASCP)

Biosafety, Biosecurity and Bioterrorism Preparedness Trainer
CDC and MA State Public Health Laboratory (Retired)
Boston, MA

Zoe Weiss, MD

Director of Clinical Microbiology
Assistant Professor of Pathology, Assistant Professor of
Medicine
Tufts Medical Center – Boston, MA

At A Glance: **Monday September 23**

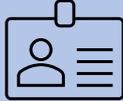
| Monday Sept 23 | | |
|-----------------------|---|---|
| 7a-8a |  | Registration/ Networking/ Exhibit Hall (Free coffee near Exhibit Hall) |
| 8a-12p Block 1 | Workshop A | Bench to Bedside: Impact of Microbiologic Tests on Clinical Care and Antimicrobial stewardship <i>Dr. David Kubiak, Dr. Brandon Dionne, Dr. Eric Gillett</i> |
| | Workshop B | Where the Rubber Meets the Road: Getting Ready for your Next CAP Inspection in the Microbiology Laboratory <i>Dr. Christi Wojewoda, Dr. Ella Martin</i> |
| | Workshop C | Lessons Learned to Improve Biosafety <i>Shoolah Escott and Dr. Michael Pentella</i> |
| 9a-10a |  | Coffee & Light Breakfast in Exhibit Hall with Vendors |
| 12p-2p |  | Lunch in Exhibit Hall with Vendors |
| 2-4:30p Block 2 | Workshop D | Biology of Biofilms <i>Dr. James Griffith</i> |
| | Workshop E | Workshop on the Evidence-Based (and Common Sense) Workup of Wound and Tissue Cultures <i>Dr. Christopher Doern, Dr. Alexandra Bryson</i> Sponsored by COPAN |
| | Workshop F | Part 1: MALDI-TOF for Microbiology: Beyond Identification <i>Ken Oliveira</i> Part 2: Overview and Best Practices of Fournier Transform - Infra-Red (FT-IR) Strain Typing for Real-Time Epidemiology <i>Dr. Gongyi Shi</i> Sponsored by Bruker |
| 4:30-6p |  | Wine and cheese in Exhibit Hall with Vendors *FREE* |
| 6p-7p | KEYNOTE SPEAKER | <i>Wastewater Intelligence: Bringing Human Health Insights from the Underground</i> Kait Hess Jimenez, MS |

You are welcome to attend any workshop you'd like in each block!

For Updates/ Alerts, find **Northeast Association for Clinical Microbiology and Infectious Disease** on:



At A Glance: Tuesday September 24

| Tuesday Sept 24 | | |
|----------------------------------|---|--|
| 7a-8a |  | Registration |
| 8a-9a Block 1 | Session A | Women in Lab Leadership Panel <i>Dr. Marisa Nielsen, Dr. Kristen Smith, Dr. Phyu Thwe, Dr. Sara Geffert</i> |
| | Session B | What Do You Do When the Breakpoints Are Broken? (How Antibiotic Breakpoints Get Updated) <i>Dr. Alexandra Bryson</i> |
| | Session C | Utilizing Host Immune Response to Differentiate Between Bacterial and Viral Infections <i>Dr. Alka Shukla</i> <i>Sponsored by Diasorin</i> |
| 9a-10a |  | Coffee & Light Breakfast in Exhibit Hall with Vendors |
| 10a-11a Block 2 | Session D | Zoonoses, Past and Present <i>Dr. Sara Geffert, Dr. Marisa Nielsen</i> |
| | Session E | Antibiotic Rapid Review: Pearls and Pitfalls <i>Dr. Chet Cunha</i> |
| | Session F | Quickness is Key: Updates on Rapid AST <i>Dr. Kristen Smith</i> |
| 11a-12p Block 3 | Session G | Integrating Molecular Methods into Clinical Microbiology Diagnostics <i>Dr. Nicole Pecora, Rebecca Zaffini</i> |
| | Session H | From Bench to Bedside: Understanding Antimicrobial Stewardship, Reporting, and Resistance <i>Dr. Michelle Lee</i> |
| | Session I | Tick Talk: Time for Lyme <i>Dr. Nancy Miller</i> |
| 12p-2p |  | Lunch in the Exhibit Hall with Vendors |
| 2p-3p |  | Student Presentations |
| 3-3:15p |  | NACMID Business Meeting – ALL ARE WELCOME! |
| 3:15-5p | Session J | Clinical Case Files <i>Dr. Alex Pyden, Dr. Zoe Weiss</i> |

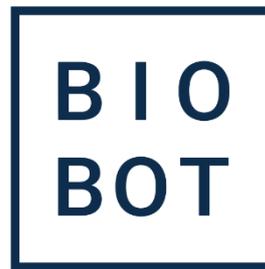
You are welcome to attend any session you'd like in each block!

Keynote Address:

Monday September 23, 2024 @ 6:00 PM

Wastewater Intelligence: Bringing Human Health Insights from the Underground

Keynote Speaker: Kait Hess Jimenez, MS
Biobot Analytics



Biobot's Wastewater intelligence Platform, delivers actionable, inclusive, and versatile insights on human health. Wastewater Based Epidemiology (WBE), once a fringe field, has grown in popularity in recent years, especially following the Covid-19 pandemic. WBE has the ability to uncover patient populations not represented in other sources, provide real-time view into disease prevalence, spread, and unmet need, prevent the next pandemic before it happens through novel pathogen detection, and detect waves in drug use and manufacturing through chemical and metabolite analyses. Biobot's laboratory methods for extraction and detection of pathogens and chemical biomarkers will be broadly explained. Case studies shared will focus on the 2023-2024 respiratory season as well as trends in illicit substance use.

Kait Hess Jimenez leads a research group of scientists at Biobot Analytics whose main goal is to develop novel platforms and methods to extract and detect infectious pathogens and chemical biomarkers from wastewater. The assays her team designs are built to detect illicit substances such as fentanyl and methamphetamine to address the substance use epidemic and highly infectious pathogens like SARS-CoV-2 and Influenza. These data provide health departments timely, anonymous, and equitable information meant to guide interventions and support public health infrastructure. Her team released the first commercial test for High-Risk Substances (HRS) in wastewater, which now supports a national wastewater testing program funded by the National Institutes on Drug Abuse (NIDA) and developed one of the first wastewater tests in the country to identify SARS-CoV-2, a program for which Biobot supported the CDC in a National Wastewater Monitoring program.

Kait began her career as an analytical chemistry technician performing pharmacokinetic sample preparation and analytical analysis at MIT. Kait received her MS in forensic science studying toxicology and drug chemistry from Cedar Crest College, where she developed a novel extraction and detection method for the analysis of a panel of illicit substances from urine by BioSPME and LC-MS/MS and lead the Quality Control program for the analytical instrument core. She is an alumna of Lehigh University with a BS in biochemistry, minor in Latin. Outside of work, Kait is a semi-professional choral singer in the Boston area, recreational runner completing the 2019 Boston Marathon on the Museum of Science team, novice bass player, fledgling gardener and mom to one human, two cats, and too-many-to-count houseplants.

BLOCK 1 (8:00am to 12:00pm)

Workshop A

Bench to Bedside: Impact of Microbiologic Tests on Clinical Care and Antimicrobial Stewardship

David Kubiak, PharmD, BCPS, BCIDP, FIDSA (Brigham & Women's Hospital)
Brandon Dionne, PharmD, BCPS-AQ ID, BCIDP, FIDSA (Brigham & Women's Hospital)
Eric Gillett, PharmD, BCIDP (Brigham & Women's Hospital)

The field of infectious diseases diagnostics is rapidly expanding, along with the development of novel antimicrobial therapeutics. In order to optimally diagnose and treat patients with infectious disease, clinical microbiology labs need to work closely with infectious diseases providers and antimicrobial stewardship teams to improve clinical outcomes. This workshop will focus on the clinical utility of current and emerging diagnostics and antimicrobials as well as how to partner with antimicrobial stewardship teams and infectious diseases providers to ensure timely clinical decisions are taken when these novel diagnostic tests result. By the end of the session, attendees will be able to implement innovative microbiologic and stewardship practices at their institutions. The speakers will mix didactic and open forum discussion to ensure attendees have the skills necessary to utilize the various tests and antimicrobial agents discussed. **Level: Advanced**

Objectives:

- Implement rapid diagnostic tools in concert with antimicrobial stewardship interventions
- Develop a reflex antimicrobial susceptibility testing algorithm for multi-drug resistant organisms
- Recognize specimen sources where susceptibility testing of commensal organisms may guide clinical care
- Identify new and emerging antimicrobial agents against multi-drug resistant organisms

Workshop B

Where the Rubber Meets the Road: Getting Ready for your Next CAP Inspection in the Microbiology Laboratory

Christi Wojewoda, MD, FCAP (UVM Medical Center)
Isabella Martin, MD, D(ABMM) (Dartmouth-Hitchcock Medical Center)

Have you ever felt stressed preparing for a laboratory inspection? Or do you see colleagues getting stressed and wonder what all the fuss is about? In the first hour of this workshop, we will review the College of American Pathologists inspection process, the reasoning behind it and how to demonstrate compliance with new checklist items pertaining to clinical microbiology. In the second two hours, we will focus specifically on one of the most important tasks in the clinical microbiology laboratory: antimicrobial susceptibility testing (AST). We will discuss the regulatory environment around AST, how breakpoints change and why it is important to implement up-to-date breakpoints both for patient care and for public health. Finally, we will walk through one approach to creating a verification/validation plan for bringing on a new antimicrobial susceptibility system in your lab. **Level: Intermediate**

Objectives:

- Describe the College of American Pathologists laboratory inspection process and the reasoning behind it
- Demonstrate compliance with new checklist items related to clinical microbiology
- List the organizations that regulate antimicrobial susceptibility testing (AST)
- Discuss why using up-to-date AST breakpoints is important for patient care and public health
- Construct a verification/validation plan for a new AST panel or system

Workshop C

Lessons Learned to Improve Biosafety

Shoolah Escott, MS(MLS), MT(ASCP) (Biosafety and Biosecurity Training)
Michael Pentella, PhD, MS, SM(ASCP), CIC, D(ABMM) (Iowa State Hygienic Laboratory)

Preventing laboratory-acquired infections (LAIs) is a constant challenge for laboratory managers and biosafety professionals, especially when dealing with an emerging pathogen. It is extremely important to quickly determine: • if there has been an exposure and how many may have been exposed, • what steps need to happen next, including any prophylaxis, • root cause analysis, • gaps in the biosafety plan, and • additional mitigation measures that need to be implemented. This interactive workshop will examine published papers from the ABSA LAI Database on laboratory acquired infections and exposures to determine what we can learn to prevent future exposures. The attendees will take a deep dive into the literature to consider the history of lab acquired infections, review selected published articles, use the Association of Public Health Laboratories (APHL) “Laboratory Exposure Assessment and Symptom Monitoring Guide” (exposure assessment tool) to determine the extent of the exposures, analyze the data to determine the root cause of exposures, discuss identified gaps, and determine what additional steps are needed to mitigate the risks. Attendees will then break into groups and receive new scenarios from the database. They will utilize the APHL exposure assessment tool to complete the process that was illustrated from exposure determination to performing the root cause analysis and identifying the gaps and mitigation steps to help prevent this from happening again. Finally, they will learn how to use published LAI data and these tools to determine how to safely work with an emerging pathogen. **Level: Intermediate**

Objectives:

- Describe how the ABSA LAI database can be used for biosafety training and determining how to safely work with emerging pathogens.
- Utilize the APHL exposure assessment tool to assess real-life laboratory incidents for potential exposures and to help guide prophylaxis if indicated.
- Analyze actual laboratory incidents to determine the root cause and what steps are necessary to mitigate future incidents.

Block 2 (2:00pm to 4:30pm)

Workshop D

Biology of Biofilms

Jim Griffith, PhD, CLS(NCA) (Forensic DNA Associates, UMass Dartmouth)

Biofilms have been observed since the earliest days of the science of Microbiology. This session will explore how they are formed, what makes their architecture work (for them and against us) and where we are in appreciating their impact on clinical microbiology. Relevant aspects of identification and control will be explored as well as non-medical locations of biofilms and the difficulty of dealing with them. **Level: Intermediate**

Objectives:

- Describe the conditions and process for a typical biofilm formation
- Discuss the current and future importance of biofilms in clinical medicine
- Describe how medical biofilms are typically identified

Workshop E

Workshop On the Evidence-Based (And Common Sense) Work-up of Wound and Tissue Cultures

Christopher Doern, PhD, D(ABMM) (VCU Health System)

Alexandra Bryson, PhD, D(ABMM) (VCU Health System)

Sponsored by 

This presentation will discuss the updates which have been made the wound and tissue culture chapters of the Clinical Microbiology Procedures Handbook. These cultures are some of the most challenging we face in the laboratory and the goal of this presentation will be to discuss the evidence behind our practices and identify areas where evidence is lacking and where “common-sense” and “expert-opinion” need to be applied. Lastly, we will learn through some examples and discuss how each of us might approach the work-up of a given culture result. **Level: Advanced**

Objectives:

- Understand the changes which have been made to the ASM Clinical Microbiology Procedures Handbook
- Discuss common pathogens of wound and tissue infections.
- Discuss the work up of challenging culture results by sharing specific examples.
- Discuss the work up of less common, but significant wound and tissue pathogens.

Workshop F

Sponsored by 

Part 1: MALDI-TOF for Microbiology: Beyond Identification

Ken Oliveira (Bruker)

MALDI-TOF has become the gold standard for microbiology identification, providing rapid, accurate and cost-effective solution for laboratories. MALDI-TOF technology and instrumentation provides additional capabilities which has been leveraged to provide labs with more information about microorganisms. This talk will review applications beyond standard identification of microorganisms and review the potential that MALDI-TOF can provide to microbiology laboratories. **Level: Intermediate**

Objectives:

- Additional applications of MALDI-TOF for microbiology
- Methodologies for identification of closely related species or subspecies by MALDI-TOF
- Methodologies for determining antimicrobial resistance by MALDI-TOF

Part 2: Overview and Best Practices of Fournier Transform - Infra-Red (FT-IR) Strain Typing for Real-Time Epidemiology

Gongyi Shi, PhD (Bruker)

Bacterial typing helps confirm relationships between different strains of bacteria during the spread of infection. Commonly used phenotypic and genotypic typing methods will be discussed and compared. Fourier-transform infrared spectroscopy (FTIR) has emerged as a promising tool for bacterial typing. Its principle and technological characteristics will be discussed. Its applications in epidemiology and infection control will be digested through some recent peer-reviewed publications. **Level: Intermediate**

Objectives:

- Overview of bacteria typing technology
- Introduce the FTIR typing workflow
- Discuss FTIR typing applications in infection control

Block 1 (8:00am to 9:00am)

Session A

Women in Lab Leadership Panel

Marisa Nielsen, PhD, D(ABMM) (Boston Medical Center)

Phyu Thwe, PhD, D(ABMM), MLS(ASCP)^{CM} (Montefiore Medical Center)

Kristen Smith, PhD, D(ABMM) (bioMerieux)

Moderator: Sara Geffert, MD, MS, D(ABMM), M(ASCP) (Rhode Island Hospital)

This will be an interactive discussion led by a panel of female speakers (Drs. Marisa Nielsen, Kristen Smith, Phyu Thwe, and Sara Geffert) detailing their journeys to laboratory leadership. We will aim to discuss how to tackle pivotal career decisions, how to self-promote one's accomplishments, and how to persevere in difficult times. **Level: Basic**

Objectives:

- Outline the detailed paths taken by each speaker to their current leadership position.
- Gain helpful insight(s) regarding how to navigate hardships along the way.
- Gain tools to help maneuver difficult decisions in your own professional track.

Session B

What Do You Do When the Breakpoints Are Broken? (How Antibiotic Breakpoints Get Updated)

Alexandra Bryson, PhD, D(ABMM) (VCU Health System)

Learn how and why antibiotic breakpoints get updated, as we walk through the data behind the recent breakpoint changes for *Stenotrophomonas maltophilia*. **Level: Intermediate**

Objectives:

- Identify the breakpoint setting organizations: FDA, CLSI, and EUCAST
- Learn why breakpoints may need to be updated over time
- Understand how CLSI changes/updates antibiotic breakpoints

Session C

Utilizing Host Immune Response to Differentiate Between Bacterial and Viral Infections

Alka Shukla, PhD (Diasorin)

Sponsored by **Diasorin**

Identifying and managing acute infections in the Emergency Department and upon admission to the hospital presents significant challenges due to various factors. However, the application of host immune response technology, centered on three key host immune response proteins – Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand (TRAIL), Interferon-gamma-induced Protein 10 (IP-10) and C-Reactive Protein (CRP), offers notable advantages in terms of accuracy, rapidity of results, and independence from the need to identify the infection site. This session aims to delve into the clinical utility and economic implications of this innovative approach. Moreover, it will include discussions on performance data and selected case studies showcasing the efficacy of novel technology in precisely identifying the etiology of acute infections. **Level: Intermediate**

Objectives:

- Understanding host immune response technology and biomarkers
- Understanding clinical utility through case studies
- Understand economic implications of this approach

Block 2 (10:00am to 11:00am)

Session D

Zoonoses, Past and Present

Marisa Nielsen, PhD, D(ABMM) (Boston Medical Center)
Sara Geffert, MD, MS, D(ABMM), M(ASCP) (Rhode Island Hospital)

This will be a combined lecture led by Drs. Marisa Nielsen and Sara Geffert detailing multiple zoonotic infections from the distant past through the present time. We will aim to discuss both viral and bacterial pathogens with variable acuity and geographical reach. **Level: Intermediate**

Objectives:

- Discuss multiple zoonotic organisms that have plagued humanity throughout time.
- Appreciate the historical aspects of previous outbreaks / epidemics.
- Discuss the impact of more recent pathogenic entities.

Session E

Antibiotic Rapid Review: Pearls and Pitfalls

Cheston Cunha, MD, FACP, FIDSA, FSHEA (Rhode Island Hospital, Miriam Hospital)

This session will provide an overview of selected antimicrobials, their role in treating infectious diseases, and their role in antimicrobial stewardship. Pearls and pitfalls of these antibiotics will be reviewed to better understand their role in treating disease and limiting the potential side effects of inappropriate antibiotic use. **Level: Basic**

Objectives:

- Provide a general review of selected antimicrobials
- Understand the critical importance of antimicrobial stewardship
- Discuss pearls and pitfalls related to antimicrobial use

Session F

Quickness is Key: Updates on Rapid AST

Kristen Smith, PhD, D(ABMM) (bioMerieux)

Susceptibility testing is a key function of clinical microbiology laboratories. Our clinicians want these results as soon as possible so that our patients can get on the right therapy. This presentation gives an update on Rapid ASTs and how these could be incorporated into your lab. **Level: Basic**

Objectives:

- Understand the evolution of susceptibility testing for bacteria
- Describe current methodologies used for Rapid AST
- Explain considerations for incorporation of Rapid AST into laboratory workflow

Block 3 (11:00am to 12:00pm)

Session G

Integrating Molecular Methods into Clinical Microbiology Diagnostics

Nicole Pecora, MD, PhD, D(ABMM) (Brigham & Women's Hospital)
Rebecca Zaffini, MT(ASCP) (Brigham & Women's Hospital)

Molecular methods have become a standard part of the modern Clinical Microbiology laboratory, though integrating them with traditional methods continues to be a challenge. In this discussion, we will discuss different approaches to training, staffing, reporting and tracking geared towards bringing molecular and traditional methods together into a coherent workflow. Examples will include testing for vaginitis, gastroenteritis, meningoenophalitis, and bloodstream infections. **Level: Intermediate**

Objectives:

- Understand the challenges of validating molecular methods against traditional (non-molecular) gold standards
- Consider ways to integrate molecular and traditional test results in technologist training and clinical reporting
- Appreciate the use of integrated quality monitors to longitudinally assess performance

Session H

From Bench to Bedside: Understanding Antimicrobial Stewardship, Reporting, and Resistance

Michelle Lee, PharmD (Rhode Island Hospital)

This presentation will highlight the importance of antimicrobial stewardship from the Microbiology laboratory bench to the patient bedside. The role of clinical microbiologists in antimicrobial stewardship programs will be discussed. Emerging drug resistance and novel antibiotics will also be covered. **Level: Intermediate**

Objectives:

- Define and describe the impact of antimicrobial stewardship programs
- Discuss the role of clinical microbiologists in antimicrobial stewardship
- Identify emerging drug resistance and novel antibiotics

Session I

Tick Talk: Time for Lyme

Nancy S. Miller, MD (Boston Medical Center)

For the appetizer: A quick pick of all things tick and tick-borne to set the stage for a focus on Lyme Disease diagnostics. *The main course:* A review of recent updates to Lyme diagnostic algorithms and implementation considerations for the clinical laboratory. *For dessert,* Key Lyme pie: What is new and promising for Lyme disease diagnostics. **Level: Intermediate**

Objectives:

- Tick-borne travails: *Recognize* where to find well-curated resources for tick-borne diseases
- Pick a tick: *Differentiate* ticks and their respective demographics and pathogens
- Prime for Lyme: *Summarize* recent updates to Lyme diagnostic algorithms and options for laboratory implementation
- In line for Lyme: *Assess* what is new and promising for Lyme disease diagnostics

NACMID Business Meeting (3:00pm-3:15pm)

Cynthia Astolfi (NACMID President)
Andrew Berens (NACMID President-Elect)

All invited to join for newest updates, messages and awards before our last lecture of the conference.

Session J - (3:15pm to 5:00pm)

Clinical Case Files

Zoe Weiss, MD (Tufts Medical Center)
Alexander Pyden, MD (Lahey Hospital & Medical Center)

In this talk, we will discuss a few interesting clinical cases where the microbiology laboratory was essential to determining causative pathogen. We'll break down the key elements of the cases, synthesizing clinical and laboratory findings that helped lead to the ultimate diagnosis. We will highlight cases of various types of organisms in which coordination with ancillary testing modalities, such as anatomic pathology or molecular diagnostics, was needed to explain the whole picture. Each case discussion will include salient teaching points, such as the basic taxonomy/epidemiology and approach to workup, as well recent developments in testing methods or guidelines. **Level: Intermediate**

Objectives:

- Explore clinically relevant and interesting microbiology cases involving a variety of types of organism
- Highlight the clinical presentations and appropriate microbiologic workups to elucidate the causative pathogens of each case.
- Discuss appropriate ancillary testing methods that can complement the microbiology workup for various infectious diseases.
- Examine any recent developments in the field relevant to each organism, such as novel diagnostic methodologies or guidelines.

Conference Location & Parking

We are pleased to announce a new venue for NACMID 2024 this year. The **Nashua Sheraton** was selected to be the host venue for the Northeast Association for Clinical Microbiology and Infectious Disease 2024 Conference.

Conference Center Address:

Nashua Sheraton

11 Tara Blvd

Nashua, NH 03062

603-888-9970



Special room rate for NACMID = \$165/ night

[Use THIS link to reserve your room at this special rate!](#)

PARKING IS FREE FOR ALL ATTENDEES

- Use any space in the Sheraton parking lot!

Any issues with hotel or reservations, please email:

MMartha.Wilson@gmail.com or **Cynthia.Astolfi@gmail.com**

CONFERENCE REGISTRATION!

****CONSIDER AN INSTITUTION PASS****

NACMID offers your institution the opportunity to purchase an institution pass for the Workshops and General Sessions

The **institution pass** allows two people from one institution to share a two-day registration. They can each come separate days or they can both come on the same day.

The Institution Pass covers:

- ✓ Workshops and General Sessions
- ✓ All Breaks
- ✓ Two lunch tickets (different days or same day)
- ✓ ASCP CMLE's for both attendees

Please indicate on the registration form the name and day each person will be attending.

Registration materials (including name badges, masks, and attendance certificates) will be ready for each participant on the day of their arrival.

YOU MAY NOW REGISTER ONLINE AT:

www.NACMID.org/2024-conference

Pricing is as below:

| Registration Options | NACMID Members | Non-members | Students** | Early Bird Before Aug 15 |
|-----------------------------------|----------------------|-------------|------------|--------------------------|
| Institution Pass (two people) | \$195/ two attendees | | | 10% OFF!!! |
| Two Day Registration (one person) | \$160 | \$210 | \$0 | 10% OFF!!! |
| One Day Registration (one person) | \$110 | \$145 | \$0 | 10% OFF!!! |

**** To classify as a "Student" for free admission, you must be currently enrolled full-time in an associate's or bachelor's Medical Laboratory degree program or other AS/ BS life science/ healthcare degree field in which Clinical Microbiology is relevant. Student ID and proof of degree program required at check-in the day of the event. Formal employer-based clinical laboratory structured training programs also apply- with proof of enrollment. For questions about eligibility please reach out to rebecca.zaffini@gmail.com**

Wine and Cheese Reception & Keynote address: Both are FREE

Please join us for a reception, hosted by the Vendors in the Exhibit Hall following Monday's Workshops, from 4:30-6:00pm. We will be serving Wine & Cheese, soft drinks and cold beer, and hot and cold hors d'oeuvres. **The Keynote Address will be from 6:00-7:00 pm. THESE EVENTS ARE FREE HOWEVER YOU MUST REGISTER SEPARATELY IF NOT ATTENDING A WORKSHOP and/ or GENERAL SESSION.** For questions about registering, please email rebecca.zaffini@gmail.com or Cynthia.Astolfi@gmail.com

For ADA requirements and special food arrangements, please contact Marty Wilson at least two weeks before the meeting: mmartha.wilson@gmail.com

Call For Student Presentations!!

**ATTENTION
STUDENTS!**

Are you a student with a relevant study or poster to present?

Let us know, and we look forward to talking more!

Top winners receive a prize!

If interested in presenting, please email

Kipper31@comcast.net



***No poster or study? That's ok- students can still attend for free! Please register online as a student (verification required)- www.nacmid.org/2024-conference*

**PLEASE REMEMBER TO RENEW YOUR
NACMID MEMBERSHIP THIS YEAR!**

FREE MEMBERSHIP again for 2024!

***Become a member for free at www.NACMID.org/membership
(membership alone does not grant entry to NACMID 2024... but will get you a nice discount!)***

***TAKE ADVANTAGE OF THE EDUCATIONAL BENEFITS THAT WE HAVE TO
OFFER, AT RATES FAR LOWER THAN OTHER ORGANIZATIONS.***

***CONSIDER THE BENEFIT OF CONTINUING EDUCATION AND NETWORKING IN
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See www.NACMID.org for more information.

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MEMBER

JOIN TODAY!

Do you love Microbiology?

Do you like putting together events?

Do you like networking and making lasting friendships?

Want to see what joining a BOD is all about with no commitment?

Come learn more about joining NACMID's Board of Directors!!

BOD intro Breakfast
Tuesday, September 24 @ 7am

FREE! As space is available

RSVP to Shoolah at: Shoolah@gmail.com

No experience or job title required. Open to anyone interested in increasing awareness and education for Clinical Microbiology in the Northeast!!

Northeast Association for Clinical Microbiology and Infectious Disease

NACMID was organized in the spring of 1983 and formally incorporated as a non-profit organization on July 1, 1983. The purpose of the association is to promote scientific knowledge of clinical microbiology and infectious diseases. **All board members and committee members are volunteers who donate their time to furthering education and passion for Microbiology professionals in New England and New York. Interested in volunteering with us? See one of the members below for more information.**

NACMID serves all of **New England and New York** and membership is open to anyone interested in Clinical Microbiology and Infectious Disease. Annually, all states come together for a two-day program featuring General Sessions of various topics.

Continuing changes in our field, including the work environment, government regulations, technology, and newly emerging pathogens, make continuing education for all microbiologists a necessity. We are proud to provide high quality, low-cost continuing education to laboratory professionals. We provide ASCP Continuing Medical Laboratory Education (CMLE) units to participants of all local and annual meetings.

Membership in NACMID is open to anyone interested in Clinical Microbiology or Infectious Disease. Please join or renew your membership today by going to www.NACMID.org/membership

NACMID Executive Board 2024:

| | |
|-----------------|-----------------|
| President | Cynthia Astolfi |
| President-Elect | Andrew Berens |
| Treasurer | Maureen Collopy |
| Secretary | Rebecca Zaffini |

Committee Membership Chairs 2024:

| | |
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| Continuing Education | Debra St. George |
| Development | Shoolah Escott |
| Exhibits | Andrew Berens Melissa Copas |
| Finance | Shoolah Escott |
| Program | Cynthia Astolfi |
| Future Sites | Martha Wilson |
| Internet | Rebecca Zaffini |
| Local Arrangements | Martha Wilson |
| Membership | Kristen Palladino |
| Nominating | Cynthia Astolfi |
| Publications | Erik Baumann |
| Proctor | Colleen Dolan |
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