Registration

Registration Fee
Registration fee includes program materials, refreshment breaks and lunch. Register on-line at: http://www.epaasm.org then click on 42nd Annual Symposium to register

General Registration
Pre-registration (by Nov 1, 2012): $125
Full registration: $150

Students, Fellows, Residents.
Pre-registration (by Nov 1, 2012): $60
Full registration: $75

Letter with departmental letterhead verifying status as student, fellow, or resident should be submitted on day of program

Upon receipt of your registration, a confirmation letter will be sent via email
No refunds or cancellations after Nov 6, 2012

Information on hotels, public transportation, parking can be found on-line at: http://www.epaasm.org then click on 42nd Annual Symposium

If you are registering and paying offline, either individually or by your institution, please make checks payable to Eastern PA Branch, ASM and mail with a copy of your email confirmation to:

Ms. Minerva Cartagena, Laboratory Coordinator, Dept of Pathology & Laboratory Medicine
St. Christopher's Hospital for Children
3601 A Street, Philadelphia, PA 19134-1095
Tel: 215-427-4673
Email: minerva.cartagena@tenethealth.com

Audience

This symposium will be of interest to clinical microbiologists, laboratory directors, supervisors, medical technologists, infectious disease physicians, public health professionals, infection control practitioners, as well as researchers working in these areas of infectious diseases.

Committee

Chair
Alan Evangelista, PhD, D(ABMM)
St. Christopher's Hospital for Children, Drexel University College of Medicine, Philadelphia, PA

Co-Chairs
Laura Chandler, PhD, D(ABMM)
VA Medical Center, Philadelphia, PA
Donald Jungkind, PhD, D(ABMM)
Thomas Jefferson University, Philadelphia, PA

Committee Members
Megan Brown, MS
GlaxoSmithKline, Collegeville, PA
Jean Buchenhorst, MS
Pennsylvania Hospital, Philadelphia, PA
Olarae Giger, PhD
Main Line Health Laboratories, Wynnewood, PA
Richard Hodinka, PhD, F(AAM)
Children’s Hosp of Phila, Perelman Sch of Medicine, University of Pennsylvania, Philadelphia, PA
Linda Miller, PhD
GlaxoSmithKline, Collegeville, PA
Irving Nachamkin, DrPH, MPH, D(ABMM)
Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

Continuing Education Credit

The Eastern Pennsylvania Branch of the American Society for Microbiology has applied for approval as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. Participants who successfully complete this program should be awarded 5.0 contact hours.

Special Needs

In compliance with the Americans with Disabilities Act (ADA), individuals requiring special accommodations should notify Judy Boyle at 215-955-1695 at least two weeks prior to the symposium.
Next Generation of Molecular Methods for the Detection of Bacteria and Viruses

Description
The Eastern Pennsylvania Branch of the American Society for Microbiology will sponsor the 42nd Annual Symposium at Thomas Jefferson University. This intermediate to advanced level program will provide information about the application of new molecular approaches to the diagnosis of bacterial and viral infections. The use of mass spectrometry and deep sequencing for the identification of bacteria will be reviewed as well as the use of molecular amplification methods for the detection of C. difficile. Viral topics will include the use of expanded multiplex PCR assays for respiratory viral detection and new approaches for the detection of HPV, as well as the general impact on clinical outcomes using nanotechnology.

Objectives
At the conclusion of this symposium, participants will be able to:

- Discuss new molecular methods for bacterial identification using matrix-assisted laser desorption ionization (MALDI) and mass spectrometry.
- Describe the methods and applications of deep sequencing and the use of this technology to examine the human microbiome to treat and manage chronic wound infections.
- Determine where algorithms may be helpful for the combination of immunologic and molecular methods for detection of C. difficile infections.
- Compare methodologies of expanded multiplex PCR assays for the detection of common and emerging respiratory viruses.
- Explain the new guidelines and molecular testing methodologies for the detection of HPV infections.
- Discuss the next generation of molecular methods using nanotechnology for the detection of viruses and its impact on clinical outcomes.

Session I: Molecular Methods for the Detection of Bacterial Pathogens

Moderator: Alan Evangelista, PhD

7:30-8:15 Registration, Coffee and Exhibits
8:15-8:30 Welcome and Introduction. Alan Evangelista, PhD, Symposium Chair, St Christopher’s Hospital for Children, Philadelphia, PA

8:30-9:15 am – Evaluation of new rapid bacterial identification methods using matrix-assisted laser desorption ionization time-of-flight (MALDI-TOF) mass spectrometry. Gerri Hall, PhD, Cleveland Clinic Foundation, Cleveland, OH

9:15-10 am – Next generation sequencing and the human microbiome: review of methods, applications, and concerns of deep sequencing. Frederic Bushman, PhD, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

10:00-10:45 am Refreshment Break & Exhibits

Moderator: Donald Jungkind, PhD

10:45-11:30 am – Analysis of bacteria diversity in the management of chronic wound infections using deep sequencing. Randall Wolcott, MD, Southwest Regional Wound Care Center, Lubbock, TX

11:30-12:15 pm – Bridging the gap: using algorithms for combination of immunologic and molecular amplification methods in diagnosing Clostridium difficile infections. Peter Gilligan, PhD, UNC Hospitals and UNC School of Medicine, Chapel Hill, NC

12:15-1:15 pm Lunch (included with registration) and Exhibits

Session II: Molecular Methods for the Detection of Viral Pathogens

Moderator: Laura Chandler, PhD

1:15-2:00 pm – Comparison of expanded multiplex PCR assays for the detection of common and emerging viral respiratory pathogens. Melissa Miller, PhD, UNC Hospitals anx UNC School of Medicine, Chapel Hill, NC

2:00-2:45 pm – HPV molecular testing: understanding new guidelines and testing methodologies. Frederick Nolte, PhD, Medical University of South Carolina, Charleston, SC

2:45-3:30 pm – Detection of viruses using molecular nanotechnology: next generation assays and impact on clinical outcomes. Richard Hodinka, PhD, Children’s Hospital of Philadelphia and Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

3:30-3:45 pm Closing Remarks and Evaluation

Alan Evangelista, PhD

Attendees will have the opportunity to ask the speakers questions after each lecture.