48th Annual Symposium
Presented by
Eastern Pennsylvania Branch of
the American Society for
Microbiology

New Automated Methods and Molecular Diagnostics in Clinical Microbiology
Thursday, November 8, 2018

Thomas Jefferson University
Jefferson Alumni Hall
1020 Locust Street
Philadelphia, Pennsylvania 19107

Committee

Co-Chairs
Alan Evangelista, PhD, D(ABMM)
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Kevin Alby, PhD, D(ABMM)
Hosp of Univ of Penn, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
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Registration

Registration Fee
Includes program materials, breaks and lunch.
Register on-line at: http://www.epaasm.org
then click on 48th Annual Symposium to register

General Registration:
Pre-registration by Nov 2, 2018:
EPAASM Members $50; Non-members $75
Full registration after Nov 2, 2018:
Members $75; Non-members $100

Students, Fellows, Residents
Pre-registration by Nov 2, 2018: $25
Full registration after Nov 2, 2018: $40
(Letter with departmental letterhead verifying status as student fellow, or resident should be submitted on day of program)

Upon receipt of your registration, an email confirmation notice will be sent. No refunds or cancellations after Nov 6, 2018.

Information on EPAASM membership, hotels, public transportation, and parking can be found on-line at: http://www.epaasm.org or by contacting Madeline Rivera (see below)

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

Madeline Rivera, Laboratory Coordinator
Dept of Pathology & Laboratory Medicine
St. Christopher's Hospital for Children
160 East Erie Ave, Philadelphia, PA 19134-1095
Tel: 215-427-4673
Email: madeline.rivera@americanacademic.com

In compliance with Americans with Disabilities Act (ADA), individuals requiring special accommodations should contact Lisa Peeler at Thomas Jefferson Univ (lisa.peeler@jefferson.edu; 215-503-4830) at least two weeks prior to the symposium.

Audience

This symposium will be of interest to clinical microbiologists, lab directors and supervisors, medical technologists, infectious diseases physicians, clinical pharmacists, public health professionals, infection prevention practitioners, as well as researchers working in related areas of infectious diseases.

Continuing Education Credit

The EPAASM 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 4.25 contact hours.
New Automated Methods and Molecular Diagnostics in Clinical Microbiology: Thursday, Nov 8, 2018

## Description

The Eastern Pennsylvania Branch of the American Society for Microbiology will sponsor the 48th Annual Symposium at Thomas Jefferson University in Philadelphia. This intermediate to advanced level program will provide updates on microbiology laboratory automation and new rapid methods for detection of antimicrobial resistance. Specific examples of molecular diagnostics will be illustrated in case presentations. Additional topics will include the use of PCR semi-quantitative syndromic panels for pneumonia, the changing algorithms to detect *C. difficile* infections, implementation of nextgen sequencing for pathogen and resistance detection, and the use of telepathology in clinical microbiology.

## Objectives

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

- Describe the advantages and limitations of automated specimen processing and plate reading in the microbiology lab.
- Explain the use of new rapid methods for the detection of antimicrobial resistance.
- Review specific examples of molecular diagnostics as illustrated in case presentations.
- Discuss the use of PCR semi-quantitative syndromic panels for pneumonia.
- Review the changing algorithms for detection of toxigenic *C. difficile*.
- Describe the use of nextgen sequencing for pathogen and antimicrobial resistance detection.
- Review the use of telepathology with applications in clinical microbiology.

## Session I: Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30-8:15am</td>
<td><strong>Registration, Coffee and Exhibits</strong></td>
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<td>8:15-8:30am</td>
<td><strong>Welcome and Introduction.</strong> Symphony Co-Chair: Alan Evangelista, PhD</td>
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<td>Moderator: Alan Evangelista, PhD, D(ABMM)</td>
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<td>8:30-9:00am</td>
<td><strong>Microbiology lab automation – advantages and limitations of WASPlab.</strong> Nathan A. Ledeboer, PhD, D(ABMM), Medical College of Wisconsin, Milwaukee, WI</td>
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<td>9:00-9:30am</td>
<td><strong>Microbiology lab automation – advantages and limitations of Kiestra.</strong> Thomas J. Kirn, MD, PhD, Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ</td>
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<td>9:30-10:00am</td>
<td><strong>New rapid methods for detection of antimicrobial resistance.</strong> Patricia J. Simner, PhD, D(ABMM), The Johns Hopkins University School of Medicine, Baltimore, MD</td>
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<td>10:00-11:15am</td>
<td><strong>Refreshment Break &amp; Exhibits</strong></td>
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<td>Moderator: Kaede Ota-Sullivan, MD, MSc, D(ABMM)</td>
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| 11:15am-12:00pm| **3 case presentations using molecular diagnostics.** 1) Kevin Alby, PhD, Hospital of University of Pennsylvania, Perelman School of Medicine, Univ of Penn, Phila, PA  
            | 2) Kaede Ota Sullivan, MD, Temple University Hospital, Lewis Katz School of Medicine at Temple Univ, Phila, PA  
            | 3) Alan T. Evangelista, PhD, St. Christopher’s Hospital for Children, Drexel University College of Medicine, Phila, PA. |
| 12:00-12:30pm| **New PCR syndromic panels for pneumonia and use of semi-quantitative approaches for pathogen detection.**  
            | Blake W. Buchan, PhD, D(ABMM), Medical College of Wisconsin, Milwaukee, WI                                                           |
| 12:30-1:15pm| **Lunch (included with registration)**                                                                                                |
| 1:15-1:45pm| **Exhibits and dessert**                                                                                                              |

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