Flu A/B and Strep A assays are CLIA-waived. Flu A/B+RSV assay is pending 510(k). Not available in the U.S. market.

* For Strep A only, additional follow-up testing is required if test result is negative and symptoms persist.

Her health is your number one concern. So when she presents flu- or strep-like symptoms, you want to be able to provide quick, definitive answers based on highly sensitive results to help ensure your treatment plan is appropriate.

With the cobas® Liat® system, the only real-time PCR system designed for CLIA-waived point-of-care testing, there’s no need to confirm negative test results*—making it even easier for you to make the right treatment decision when she needs it most.

Now there’s a better way to test.
To learn more, visit go.roche.com/pcrtest

Flu A/B and Strep A assays are CLIA-waived.
Flu A/B+RSV assay is pending 510(k). Not available in the U.S. market.
* For Strep A only, additional follow-up testing is required if test result is negative and symptoms persist.

COBAS, Liat and LIFE NEEDS ANSWERS are trademarks of Roche. © 2016 Roche. PP-US-06985-0416
Win a variety of prizes while touring the latest products and services presented by ASM Microbe 2016 Exhibitors!

- Visit the booths of all participating exhibitors and have them stamp their section of the passport grid.

- Fill out your contact information, and bring your completed entry card to the ASM booth #1040 by Monday, June 20, at 1:00 p.m. to be entered into the drawing to win a variety of prizes.

- Winners will be announced in the Exhibit and Poster Hall on Monday, June 20, at 2:30 p.m. You do not need to be present to win.

You could win one of the following prizes:

- Free registration to ASM Microbe 2017
- Apple TV
- Amazon Echo
- JBL Wireless Bluetooth Speaker
- Gift certificate to ASM Press
### Contact Information

**Name:** ___________________________________________

**Address:** _______________________________________

**City:** ___________________________ **State:** ___________________________ **Zip:** ___________ **Country:** _______________________________________

**Phone:** _______________________________________

**Email:** _______________________________________

### Exhibit and Poster Hall Hours

- **Friday, June 17:** 8:00 a.m. – 3:00 p.m.
- **Saturday, June 18:** 8:00 a.m. – 3:00 p.m.
- **Sunday, June 19:** 8:00 a.m. – 3:00 p.m.
- **Monday, June 20:** 8:00 a.m. – 3:00 p.m.

### Booths

- **Booth 222**
  - **Mylords**
  - **Booth 1819**

- **Booth 1523**
  - **Biociences**
  - **Booth 841**

- **Booth 1526**
  - **Focus**
  - **Booth 640**

- **Booth 615**
  - **Hologic**
  - **Booth 2200**

- **Booth 222**
  - **The Medicines Company**
  - **Booth 1622**

- **Booth 1819**
  - **Lumixx**
  - **Booth 2110**

- **Booth 1436**
  - **T2 Biosystems**
  - **Booth 1622**

- **Booth 2204**
  - **AxCc**
  - **Booth 1436**

- **Booth 2204**
  - **Axcellerate**
  - **Booth 1436**

- **Booth 2204**
  - **Axxogen**
  - **Booth 2204**
ASM Microbe 2016 Supporters

The American Society for Microbiology would like to recognize the following companies for their support of the inaugural ASM Microbe 2016. On behalf of our leadership and our members, we thank them for their continued support and generous contributions.

PLATINUM SUPPORTERS

[Images of logos for Hologic, Merck, and Roche]

Booth 615  Booth 1400  Booth 841

GOLD SUPPORTERS

[Images of logos for Accelerate Diagnostics, Allergan, and The Medicines Company]

Booth 2204  Booth 1436  Booth 1819

SILVER SUPPORTER

[Image of logo for BioFire, a Biomerieux Company]

Booth 1830

ASM also thanks the following contributors for their support:

3M Health Care
Receiving her STI result is the moment that could change everything. One wrong result can cause a cascade of emotional and physical distress for patients, and raise the risk of infecting others.

**Rely on layers of protection that make a world of difference**
- Dual probe design increases sensitivity and specificity
- Internal control verifies that amplification has taken place
- AmpErase virtually eliminates false positive results

And, experience hands-off testing on a single platform by consolidating your HSV and CT/NG testing on the cobas® 4800 system.

**cobas® CT/NG v2.0 Test | cobas® HSV 1 and 2 Test**

For more information, contact your Roche sales representative or visit [www.usdiagnostics.roche.com](http://www.usdiagnostics.roche.com)

**References:**

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MEETING ATTENDEES
See cutting-edge research across all seven tracks while you are in Boston, MA and long after the meeting is over.

View iPosters Interactive Poster Hall during ASM Microbe 2016 in the Exhibit and Poster Hall, Halls A and B of the Boston Convention and Exhibition Center, or view iPosters anytime online at asm.posterview.com. Log into the online program using your meeting registration ID.

POSTER PRESENTERS
Don’t miss your chance to include your research in iPosters ASM Microbe 2016 online collection. Submission is FREE! Simply bring your poster in electronic format to the iPosters kiosks located in the Exhibit and Poster Hall OR email your poster file to iPosters@learnersdigest.com before July 14, 2016.

iPosters can be viewed at asm.posterview.com.
General Information

Exhibit and Poster Hall Hours
Friday, June 17 ..................... 8:00 a.m. – 3:00 p.m.
Saturday, June 18 ................. 8:00 a.m. – 3:00 p.m.
Sunday, June 19 ................... 8:00 a.m. – 3:00 p.m.
Monday, June 20 .................. 8:00 a.m. – 3:00 p.m.

Dedicated Exhibit Hours
Friday, June 17 ..................... 10:45 a.m. – 2:45 p.m.
Saturday, June 18 ................. 12:30 p.m. – 2:45 p.m.
Sunday, June 19 ................... 12:00 p.m. – 2:45 p.m.
Monday, June 20 .................. 12:00 p.m. – 2:45 p.m.

Refreshment Break Schedule
Friday, June 17 ..................... 11:00 a.m. – 11:45 a.m.
Saturday, June 18 ................. 2:00 p.m. – 2:45 p.m.
Sunday, June 19 ................... 12:15 p.m. – 1:00 p.m.
Monday, June 20 .................. 2:00 p.m. – 2:45 p.m.

Posters

POSTER VIEWING HOURS
Friday, June 17 ..................... 8:00 a.m. – 3:00 p.m.
Saturday, June 18 ................. 8:00 a.m. – 3:00 p.m.
Sunday, June 19 ................... 8:00 a.m. – 3:00 p.m.
Monday, June 20 .................. 8:00 a.m. – 3:00 p.m.

POSTER PRESENTATION & POSTER WALK HOURS
Friday, June 17 ..................... 12:30 p.m. – 2:30 p.m.
Saturday, June 18 ................. 12:45 p.m. – 2:45 p.m.
Sunday, June 19 ................... 12:30 p.m. – 2:30 p.m.
Monday, June 20 .................. 12:30 p.m. – 1:30 p.m.

Poster Presenter Access Hours
Poster presenters must have their letter and meeting badge to enter the Exhibit and Poster Hall during the designated poster set up and dismantle times. After set up and removal of posters, presenters may not remain in the Exhibit and Poster Hall during closed hours.

SET UP TIME: Between 6:30 a.m. – 8:00 a.m. on the day that you present.

POSTER REMOVAL: Between 3:00 p.m. – 4:30 p.m. on Friday through Sunday and 2:30 p.m. and 3:00 p.m. on Monday.

iPosters™
Supported by a grant from

Merck

Take a closer look at iPosters ASM Microbe 2016 online collection! Included posters contain all of the text, charts, and graphs just as they were presented. Registered meeting attendees can view iPosters onsite at the computer station (located at the bottom of the escalators inside the entrance of the Exhibit and Poster Hall) during the meeting, or for one year following the meeting via asm.posterview.com. Log into the online program using your meeting registration ID.

Poster Walks
Led by Conveners in the field, these topic-based walks will discuss the most intriguing posters and latest discoveries from particular areas of interest. Interested attendees should meet in the Exhibit and Poster Hall by the Poster Walk sign. (See page 23 for Poster Walk schedule.) Headphones can be picked up at the counter located at the rear of the Exhibit and Poster Hall.

Explore the Exhibit Hall for a chance to win prizes!

The Exhibit Hall Passport offers you the opportunity to win prizes while touring the latest products and services presented by ASM Microbe 2016 exhibitors. (See the beginning of this Guide for the Passport and instructions.)

Don’t miss this great opportunity to win one of the following prizes:

- Free registration to ASM Microbe 2017
- Apple TV
- Amazon Echo
- JBL Wireless Bluetooth Speaker
- Gift certificate to ASM Press
ASM Microbe 2016 ONLINE

Browse audio-synched slides from ASM Microbe 2016 throughout the year. **Purchase before June 24 and save!**

**Advance Rates for attendees** (on or before June 24)

<table>
<thead>
<tr>
<th>Packages</th>
<th>Regular Attendee</th>
<th>Student/Postdoc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track package</td>
<td>$159</td>
<td>$99</td>
</tr>
<tr>
<td>Full package</td>
<td>$399</td>
<td>$299</td>
</tr>
</tbody>
</table>

**Regular Rates** (after June 24)

<table>
<thead>
<tr>
<th>Packages</th>
<th>Track package</th>
<th>Full package</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$209</td>
<td>$449</td>
</tr>
</tbody>
</table>

To take advantage of the reduced rates, log into [ASM Events Online](http://www.asmeventsonline.com) if you have an existing account. Instructions for new users will be sent to attendees by email.

Get a FREE copy of the redesigned *Infectious Disease Special Edition* at booth #2146.

Sign up for our e-newsletter at [idse.net/eNewsSignUp](http://idse.net/eNewsSignUp)

Check out [www.idse.net](http://www.idse.net) regularly for news about infectious diseases.
Be sure to visit the integrated Exhibit and Poster Hall during the meeting! Find the products, services and solutions that you need when you walk through over 250 exhibitors and many specialty areas on the show floor. Don’t forget to wear your comfortable shoes!

**Professional Development (NEW!)**
Looking for career advice? Attend the Career Talks and other professional development sessions offered each day in the Professional Development Zone on the show floor. These informal, interactive sessions will feature microbiologists from a wide variety of careers sharing information on what they do and what you can do to join their field. (See page 14 for details.) Also, don’t miss the Graduate School Recruitment Event on Friday, June 17, at 1:45 p.m. in the Peer-to-Peer Exchange Zone on the show floor.

**Industry & Science Activities**
Hosted by ASM Microbe 2016 exhibitors, these educational events are intended to complement the official ASM program and enrich the attendee experience.

- **Industry & Science Courses** will be held the morning of Friday, June 17 at the Renaissance Hotel. No registration fee is required to attend these activities, but space is limited to the first 100 attendees.

- **Industry & Science Symposia** will be held each evening of ASM Microbe 2016 at nearby hotels and the Boston Convention and Exhibition Center. These events can cover one or several topics, and may offer continuing education credits.

- **Industry & Science Showcases** will be held on the Exhibit and Poster Hall floor during various times throughout the course of the day. Each showcase is limited to 45-minutes and will feature product demonstrations and/or education about a company’s products and services.

Please see page 34 for complete details on the Industry & Science Activities being presented this year.

**Wellness Activities (NEW!)**
Stop by the Wellness Zone on the show floor for some quick stretching or seated exercises. Take a creative mental break in the “play” area, or find a moment of quiet reflection. You can find the yoga and recharge break schedule on page 21.
# Exhibit and Poster Hall Daily Schedule

Join us in the BCEC, Exhibit and Poster Hall, Halls A and B for these NEW Activities!

<table>
<thead>
<tr>
<th>NEW Activities in the Exhibit and Poster Hall</th>
<th>FRIDAY, JUNE 17</th>
<th>SATURDAY, JUNE 18</th>
<th>SUNDAY, JUNE 19</th>
<th>MONDAY, JUNE 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhibit and Poster Viewing Hours</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
</tr>
<tr>
<td>Dedicated Hours</td>
<td>10:45 a.m. – 2:45 p.m.</td>
<td>12:30 p.m. – 2:45 p.m.</td>
<td>12:00 p.m. – 2:45 p.m.</td>
<td>12:00 p.m. – 2:45 p.m.</td>
</tr>
<tr>
<td>Exhibit Hall Passport</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 1:00 p.m.</td>
</tr>
<tr>
<td>Advancing the Microbial Sciences: Next Generation Sequencing – Changing the Application of Microbiology</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
<td>8:00 a.m. – 3:00 p.m.</td>
</tr>
<tr>
<td>Professional Development Zone Booth #1854</td>
<td>8:15 a.m. – 9:00 a.m.</td>
<td>8:15 a.m. – 9:00 a.m.</td>
<td>8:15 a.m. – 9:00 a.m.</td>
<td>8:15 a.m. – 9:00 a.m.</td>
</tr>
<tr>
<td>Peer-to-Peer Exchange Zone Booth #1834</td>
<td>10:45 a.m. – 11:30 a.m.</td>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>12:15 p.m. – 1:00 p.m.</td>
</tr>
<tr>
<td>Speaker Connection Zone Booth #430</td>
<td>11:30 a.m. – 12:00 p.m.</td>
<td>12:30 p.m. – 1:00 p.m.</td>
<td>11:00 a.m. – 11:30 a.m.</td>
<td>8:15 a.m. – 8:45 a.m.</td>
</tr>
<tr>
<td>Wellness Zone Booth #555</td>
<td>11:00 a.m. – 11:15 a.m.</td>
<td>12:45 p.m. – 1:00 p.m.</td>
<td>12:15 p.m. – 12:30 p.m.</td>
<td>12:15 p.m. – 12:30 p.m.</td>
</tr>
<tr>
<td>RefreshmentBreaks (Various locations)</td>
<td>11:00 a.m. – 11:45 a.m.</td>
<td>2:00 p.m. – 2:15 p.m.</td>
<td>12:15 p.m. – 1:00 p.m.</td>
<td>2:00 p.m. – 2:45 p.m.</td>
</tr>
<tr>
<td>Poster Presentations &amp; Poster Walks (PW Back of the Exhibit and Poster Hall)</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>12:45 p.m. – 2:45 p.m.</td>
<td>12:30 p.m. – 3:00 p.m.</td>
<td>12:30 p.m. – 3:00 p.m.</td>
</tr>
<tr>
<td>Industry &amp; Science Showcases A – Booth #144</td>
<td>11:45 a.m. – 12:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
</tr>
<tr>
<td>Industry &amp; Science Showcases B – Booth #1844</td>
<td>11:45 a.m. – 12:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
<td>12:45 p.m. – 1:30 p.m.</td>
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</tbody>
</table>
Exhibit and Poster Hall Specialty Areas

This year, you’ll find posters and exhibits fully integrated on the show floor. You can also take advantage of the abundant learning and networking opportunities.

ADVANCING THE MICROBIAL SCIENCES: NEXT GENERATION SEQUENCING – CHANGING THE APPLICATION OF MICROBIOLOGY

Friday, June 17 – Monday, June 20
8:00 a.m. – 3:00 p.m.
BCEC, Exhibit and Poster Hall, Booth #1951
Supported by

PROGRAM OVERVIEW:
ASM is pleased to introduce a new interactive, educational event in the Exhibit and Poster Hall. Attendees will experience a hands-on review of 10 vignettes of recently published papers from renowned scientists, such as Charles Chiu, Derrick Crook, Eric Pamer and Chris Mason. These vignettes, covering a breadth of scientific topics including clinical, environmental, and industrial microbiology, will include a description of the problem or situation, details on the research conducted and why NGS was applied, and the results and conclusions of the research project. Attendees of ASM Microbe 2016 will also have the added benefit of being able to download the entire experience as an iOS or Android app for use after the meeting.
Visit the ASM booth and see how microbiology touches everything! Discover how the American Society for Microbiology can help you, how you can help ASM, and how together we can make microbiology better.

**SHOP**

Shop ASM’s books for the latest in microbiology publications or pick up one of our new agar art calendars, filled with microbial masterpieces! Grab some of our swag and get your hands on some ASM merchandise.

**CONTRIBUTE**

See how you can get involved with ASM by browsing our many volunteer opportunities, including Microbe Mentor, international ambassador and public programming initiatives. There will be rotating speakers to tell you about ASM and answer your questions.

**KNOW**

Learn more about ASM’s unique offerings. Browse our journal titles, magazine apps, and clinical guidelines. Check out reports from our International department and the American Academy of Microbiology, and get an update on possible governance changes.

**JOIN**

Are you an ASM member yet? No worries. Come over to our booth and join ASM today. Our membership staff will walk you through the benefits of membership and sign you up so that you can start taking advantage of our discounts, early bird specials and members only offerings.

**GROW**

Gather the tools to you need to advance your career or studies. Learn about our scientific and grant writing courses. Have questions about your career path? Navigate the ASM careers website and find your niche.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
</table>
| Friday, June 17 | 11:00 a.m. | Evidence-Based Lab Medicine Practice Guidelines | Learn how evidence-based reviews are impacting clinical laboratory practice and how you can participate in this initiative to improve patient care.  
Alice Weissfield, Ph.D.  
Peggy McNult, Director, ASM Professional Practice  
Nancy Cornish, Medical Officer, Division of Laboratory System |
|              | 11:30 a.m. | Get Between the Sheets with ASM Press | ASM Press content covers a range of microbial science topics, from children’s picture books to industry-standard clinical reference manuals. Come chat with our acquisitions editors to learn and discuss topics to share within the microbial science community.  
Gregory Payne, Senior Acquisitions Editor  
Lauren Luethy, Editorial Acquisitions Specialist |
|              | 12:00 p.m. | Developing Professionally at All Career Levels | Learn how the ASM Education Board offers microbiological science resources for students, early-career scientists, and faculty.  
Irene Hulede, Manager, Student Programs |
|              | 12:30 p.m. | CMIIM and career success strategies for Underrepresented Minorities | Learn how the Committee on Microbiological Issues Impacting Minorities collects data on the training and employment of minority microbiologists and advises ASM on matters concerning the status of minority microbiologists.  
Dwayne Boucoud, Ph.D. Chair, Committee on Microbiological Issues Impacting Minorities |
|              | 1:00 p.m. | ASM International Programs (Tanzania, Ukraine) | Learn how ASM provides capacity building for HIV point-of-care diagnostics – validation, training, and implementation in Ukraine.  
Lynee Galley, Senior Program Specialist |
|              | 1:30 p.m. | International Programs (Ethiopia, Mozambique) | Learn how ASM provides mentoring and technical assistance support towards capacity building for clinical microbiology, addressing AMR, HIV co-infection, TB diagnostics strengthening, and EQA.  
Maritza Urrego, Program Specialist |
|              | 2:00 p.m. | Governance Changes | Learn about ASM’s proposal to change its bylaws to make its governance more agile, inclusive, and transparent.  
Lynn Enquist, ASM President |
| Saturday, July 18 | 12:30 p.m. | International Programs (Cote d’Ivoire) | Learn about how ASM works to promote laboratory biosafety, biosecurity, and disease diagnostics in Cote d’Ivoire.  
Koss Mensah, Program Specialist |
| Sunday, June 19 | 12:30 p.m. | International Programs (India, Egypt) | Learn how ASM works to promote laboratory biosafety, biosecurity, and disease diagnostics in India and Egypt.  
Janelle Winters, Program Specialist |
|              | 1:00 p.m. | Publishing Ethics | Erika Davies, Ethics Publishing Manager |
|              | 1:30 p.m. | Education Board, ASM Governance, Overall ASM Programs | Amy Chang, Director, Education Programs |
|              | 2:00 p.m. | Governance Changes | Learn about ASM’s proposal to change its bylaws to make its governance more agile, inclusive, and transparent.  
Joe Campos, ASM Secretary |
| Monday, June 20 | 12:30 p.m. | International Programs (Guinea, Botswana, Guyana) | Learn how ASM works with the Government of Guinea to build sustainable capacity for accurate and reliable malaria diagnostics in support of the National Malaria Control Program (NMCP).  
Nisha Puntambekar, Program Specialist |
|              | 1:00 p.m. | ASM Journals | Learn about the ASM Journals program, with special emphasis on AAC and the new journals, mSphere and mSystems.  
Noel Lin, Production Editor, Antimicrobial Agents and Chemotherapy, mSphere |
|              | 1:30 p.m. | Committee on the Status of Women in Microbiology | Learn how this committee studies legislation affecting women microbiologists and encourages women microbiologists to participate in ASM activities.  
Hazel Barton, Ph.D., Chair, Committee on the Status of Women in Microbiology (CSWM) |
Friday, June 17 – Monday, June 20
BCEC, Exhibit and Poster Hall, Halls A and B, Booth #1854

PROGRAM OVERVIEW:
Attend Career Talks and other professional development sessions offered each day on the show floor. Career Talks are informal, interactive sessions that feature microbiologists from a wide variety of careers sharing information on what they do and what you can do to join their field. Bring your questions!

FRIDAY, JUNE 17

008 Lights, Camera, Science! Engaging Videos 101
8:15 a.m. – 9:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-008-L04-P
ASCLS P.A.C.E.®: 0.5

025 Preparing Your Education and Engagement Research for Publication: Qualitative Research for Dummies
9:15 a.m. – 10:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-021-L04-P
ASCLS P.A.C.E.®: 0.5

026 Career Talk - Joseph Igietseme; Natl. Ctr. for Emerging and Zoonotic Infectious Diseases, CDC
10:45 a.m. – 11:15 a.m.

028 Career Talk - Christine White-Ziegler; Smith College
11:30 a.m. – 12:00 p.m.

030 Career Talk - Debbie Myers; Hershey Medical Center
12:15 p.m. – 12:45 p.m.

083 Career Talk – Cecil Runyon; Medline Lab., Inc.
1:15 p.m. – 1:45 p.m.

086 NIAID Training (T), Career (K), and Fellowship (F) Opportunities
1:45 p.m. – 2:30 p.m.
CME Hours: 0.75
UAN: 0391-9999-16-022-L04-P
ASCLS P.A.C.E.®: 0.5

SATURDAY, JUNE 18

120 Science in 30 Seconds: Develop an Elevator Speech
8:15 a.m. – 9:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-43-L04-P
ASCLS P.A.C.E.®: 0.5

144 How Can I Put This? Creating Analogies
9:15 a.m. – 10:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-060-L04-P
ASCLS P.A.C.E.®: 0.5

147 Career Talk - Marie-Claire Rowlinson; Florida Dept. of Health
12:30 p.m. – 1:00 p.m.

199 Career Talk - Crystal R. Icenhour; Aperiomics, Inc.
1:15 p.m. – 1:45 p.m.

203 Career Talk - Kendra Chittenden; USAID
2:00 p.m. – 2:30 p.m.

SUNDAY, JUNE 19

241 Once Upon a Time, in a Lab Far Away… Telling Your Science as a Story
8:15 a.m. – 9:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-086-L04-P
ASCLS P.A.C.E.®: 0.5

270 Microbiology in the World of Social Media
9:15 a.m. – 10:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-110-L04-P
ASCLS P.A.C.E.®: 0.5

273 Career Talk - Kevin Alby; Univ. of Pennsylvania
12:30 p.m. – 1:00 p.m.

328 Career Talk - Mary Sylvia; Wiley Rein LLP
1:15 p.m. – 1:45 p.m.

331 Career Talk - Heidi Ledford; Nature
2:00 p.m. – 2:30 p.m.
MONDAY, JUNE 20,

369 Using Poll Everywhere to Engage your ID and Micro Learners
8:15 a.m. – 9:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-138-L04-P
ASCLS P.A.C.E.®: 0.5

386 Tips for Writing Grant Applications
9:15 a.m. – 10:00 a.m.
CME Hours: 0.75
UAN: 0391-9999-16-155-L04-P
ASCLS P.A.C.E.®: 0.5

389 Career Talk - Adrienne Bambach; Roche
12:30 p.m. – 1:00 p.m.

433 Career Talk - Dina Monsen; AstraZeneca Biologics
1:15 p.m. – 1:45 p.m.

435 Career Talk - Gregory Jarosik and Amir Zeituni; NIAID
2:00 p.m. – 2:30 p.m.

PEER-TO-PEER EXCHANGE ZONE

Friday, June 17 – Monday, June 20
BCEC, Exhibit and Poster Hall, Halls A and B, Booth #1834

Please see insert included in your registration packet for details on the topics offered for each session.

PROGRAM OVERVIEW:
Often times, the knowledge you gain in conversations with your fellow participants can be just as valuable as what you learn in formal sessions. These informal sessions, scheduled each day in dedicated space on the Exhibit and Poster Hall floor, offer valuable peer-to-peer discussions on topics selected and facilitated by meeting participants.

FRIDAY, JUNE 17

027 Peer-to-Peer Exchange Session: Education Topics
10:45 a.m. – 11:30 a.m.

029 Peer-to-Peer Exchange Session: Various Topics
11:45 a.m. – 12:30 p.m.

082 Peer-to-Peer Exchange Session: Various Topics
12:45 p.m. – 1:30 p.m.

085 Graduate Recruitment Session
1:45 p.m. – 2:30 p.m.

SATURDAY, JUNE 18

146 Peer-to-Peer Exchange Session: Various Topics
12:15 p.m. – 1:00 p.m.

200 Peer-to-Peer Exchange Session: International
1:15 p.m. – 2:00 p.m.

SUNDAY, JUNE 19

272 Peer-to-Peer Exchange Session: Career Success Strategies for Women and URM Microbiologists
12:15 p.m. – 1:00 p.m.

329 Peer-to-Peer Exchange Session: Various Topics
1:15 p.m. – 2:00 p.m.

MONDAY, JUNE 20

388 Peer-to-Peer Exchange Session: Various Topics
12:15 p.m. – 1:00 p.m.

434 Peer-to-Peer Exchange Session: Various Topics
1:15 p.m. – 2:00 p.m.

ASM is accredited to offer P.A.C.E.® Continuing Education (CE) credits for visiting the Exhibit Hall. Attendees have the unique opportunity to receive P.A.C.E.® credits by interacting with exhibitors through booth demonstrations and educational booth presentations in the Exhibit Hall, in addition to acquiring P.A.C.E.® credits by attending eligible scientific sessions and workshops at ASM Microbe 2016. See page 52 for instructions on how to participate!
SPEAKER CONNECTION ZONE

Friday, June 17 – Monday, June 20
BCEC, Exhibit and Poster Hall, Halls A and B, Booth #430

PROGRAM OVERVIEW:
Let the learning continue after the session! Speakers will be invited to participate in informal discussions with interested participants after their presentations.

The following list of speakers will be available in a Speaker Connection Session in the Speaker Connection Zone located on the Exhibit floor. Speakers are subject to change. For a current list, please check the ASM events mobile app or the Online Program Planner.

Speaker Connection Session

FRIDAY, JUNE 17

11:30 a.m. – 12:00 p.m.
Speakers in: Advances in Clinical Microbiology from the Horse’s Mouth
Susan Harrington
Ruiting Lan
Alexander McAdam

Speaker in: Bacterial Communication
Sam Brown

Speakers in: Breaking up Is Hard to Do: Microbial Cell Division
Silvia Bulgheresi
Jie Xiao

Speaker in: Escherichia coli: A Friend or an Enemy?
Lee Riley

Speaker in: Evolution of Host Defense across the Tree of Life
Britt Koskella

Speaker in: ID Fellows 101: For Fellows Age 18-88
David Frederick

Speakers in: We Are Not Alone: Emerging Issues of the Human Mycobiome (Organized in Cooperation with the Immunocompromised Host Society (ICHS))
Thomas Auchtung
Mahmoud Ghannoum
Mihai Netea

12:15 p.m. – 12:45 p.m.
Speakers in: Biosafety and Biosecurity Lessons to Be Learned
Reynolds Salerno
Jill Taylor

Speakers in: Chemistry and Microbiology BFF: Beyond MALDI-TOF MS Technology
Jeffrey Cirillo
Tony Hu

Speakers in: Feed Me, Feed My Microbiome: The Role of Prebiotics and the Microbiome in Conferring Health Effects
Laure Bindels
Michael Blaut

Speakers in: New Insights Into Enterococcal Pathogenesis and Antibiotic Resistance in the Genomic Era
Ilana Camargo
Francois Lebreton

12:15 p.m. – 12:45 p.m.
Speakers in: Evolution of Host Defense across the Tree of Life
Britt Koskella

1:00 p.m. – 1:30 p.m.
Speakers in: Escherichia coli: A Friend or an Enemy?
Erick Denamur
Patrice Nordmann

SATURDAY, JUNE 18

12:30 p.m. – 1:00 p.m.
Speaker in: Building the Great Wall: Diverse Bacterial Growth Strategies
Felipe Cava

Speaker in: Decreased Antibiotic Efficacy in Renal Impairment: Are We Getting the Dose Wrong? (Organized in Cooperation with the Society of Infectious Diseases Pharmacists (SIDP))
Bruce Mueller

Speaker in: Friends, Foes and Foils: Defining Microbial Interactions featuring the ASM Lecturer and Distinguished Lecturers
Graham Hatfull

Speaker in: Friends, Foes, and Frenemies: Phage-Host Dynamics
Jennifer Brum
Kimberley Seed
Speaker in: GBS Diseases: Global Challenges
Androulla Efstratiou

Speakers in: Guess the Resistance Mechanism
J. Kristie Johnson
Stefan Riedel
Theodore White

Speakers in: Microbiology Research Funding Opportunities
Matthew Hepburn
Keith Klugman

Speaker in: Sex-specific Factors and the Pathogenesis of Infectious Diseases
Sabra Klein

Speakers in: The Human Microbiome as a Reservoir of Antimicrobial Resistance Genes
Adam Roberts
Willem van Schaik

1:15 p.m. – 1:45 p.m.
Speaker in: Error Rates in Clinical Microbiology Laboratories: Where Do We stand?
Linoj Samuel

Speakers in: Everything in Its Place: Constructing and Coordinating the Bacterial Cell
Nina Salama
Thomas Silhavy

Speakers in: Fresh Approaches to Antibiotic Drug Discovery: Breaking from Convention
Eric Brown
Kim Lewis

Speaker in: General Session - Friends, Foes, and Foils: Defining Microbial Interactions featuring the ASM Lecturer and Distinguished Lecturers
Marilyn Roossinck

Speakers in: Literature Review
Robert Bonomo
Morven Edwards

Speaker in: pH Up, pH Down: The Bacterial Response
George Sachs

Speakers in: Protecting the Food Supply: From Humble Beginnings to Next Generation PulseNet
Robert Martin
Amy Woron

Speakers in: The Urban Water Cycle Microbiome
Kartik Chandran
Tom Curtis
Lutgarde Raskin

2:00 p.m. – 2:30 p.m.
Speaker in: Agribiomes: Friends of Friends and Foes of Foes
Cindy Morris

Speakers in: Controversies in Antimicrobial Stewardship
Bojana Beovic
Marc Leone
Mical Paul
Jason Roberts

Speakers in: Developing the Next Gen Scientist: The Role of Course Based Research in the Undergraduate Curriculum
Sara Brownell
Jeffery Newman
Christine White-Ziegler

Speakers in: Ethics in Laboratory Medicine
Christopher Doern
Ann Gronowski
Indi Trehan

Speaker in: Let's Start at the Very Beginning: What's New with Bacterial Transcription Initiation
Wilma Ross

Speaker in: Meet Me at the Membrane
Karen Fleming

Speakers in: Microbial Electric Grids: Electromicrobiology, Fuel Cells, Nanowires, and Cable Bacteria
Ryuhei Nakamura
Amelia-Elena Rotaru

Speaker in: Protein Destruction by Protein Machines
K. Heran Darwin

SUNDAY, JUNE 19

11:00 a.m. – 11:30 a.m.
Speakers in: Bacterial Film Stars: Microscopic Actions and Macroscopic Consequences in Biofilms
Susanne Haussler
George O’Toole

Speaker in: Evolution of Microbial Consortia
Toshiyuki Nakajima

Speaker in: Getting into a Rhythm: Microbial Influence on Biological Clocks
Garret FitzGerald
Margaret McFall-Ngai

Speaker in: Keeping the Batteries Charged
Wolfgang Buckel
Caroline Harwood
Speakers in: May the Force Be with You: Microbial Mechano sensing  
Joanna Aizenberg  
Albert Siryaporn

Speakers in: Microbiology of the Anthropocene  
Alexandre Anesio  
Michael Gillings  
Sophie Zechmeister-Boltenstern

11:45 a.m. – 12:15 p.m.  
Speaker in: Microbes that Link C, N, and P Cycles  
Asa Frostegard

Speakers in: Microbiotology: Let’s Spend Some Time Together  
Peggy Cotter  
Alain Filloux

Speaker in: Nutrient Acquisition by Intravacuolar Pathogens  
Isabelle Coppens  
Matthias Horn

Speaker in: Regulating with RNA  
Franz Narberhaus

Speakers in: Sorting Out the Signals: Sensing and Signaling through Second Messengers  
Angelika Grundling  
Christopher Waters

Speaker in: Viruses as Master Manipulators  
Terence Dermody

12:30 p.m. – 1:00 p.m.  
Speaker in: General Session - Antimicrobial Research Award Lecture  
David Hooper

Speaker in: Alexander Fleming and the Beginnings of Biofilm Research  
Michael Hanophy

Speaker in: Antimicrobial Resistance Control: A One-Health Approach  
Antoine Andrémont

Speaker in: Broadly Neutralizing Antibodies  
Ian Wilson

Speaker in: Clinical Applications of Next Generation Sequencing  
Alan Wolfe

Speaker in: Control of C. difficile Infection  
Ed Kuijper

Speaker in: Harmful Effects of Biocide Overuse in Humans and the Environment  
Patrick McNamara

Speaker in: Optimal Use of Rapid Diagnostics in the Clinical Microbiology Laboratory for Quality Improvement and Clinical Care  
Melvin Weinstein

Speakers in: The Science of Learning  
Loretta Brancaccio-Taras  
Samantha Elliot  
Rachel Horak  
Michelle Smith

1:15 p.m. – 1:45 p.m.  
Speakers in: Big Challenges in Pre-clinical Med Student Microbiology Education (Supported jointly by IDSA and AMSMIC)  
Richard Hodinka  
Michael Schmidt

Speaker in: Forty Years after the Double Bind  
Allison Shaw

Speakers in: Next-Generation Antimicrobial Discovery, Development, and Susceptibility Testing  
Carey-Ann Burnham  
Karen Bush  
Kim Lewis

Speakers in: Novel Insights Regarding the Microbiome and Pregnancy (Organized in Cooperation with the Infectious Diseases Society of Obstetrics and Gynecology (IDSOG))  
Maria Dominguez-Bello  
Jörn-Hendrik Weitkamp

Speakers in: Pneumonia Etiology of Infants in Resource Limited Settings: 2016 Update on Diagnostics, Prevention and Treatment (Supported jointly with Bill & Melinda Gates Foundation) (Organized in Cooperation with the American Society of Tropical Medicine and Hygiene)  
Keith Klugman  
Eric Mccollum

EXHIBIT AND POSTER HALL SPECIALTY AREAS
Speakers in: Preventing Pediatric Infection (Supported jointly with the Bill & Melinda Gates Foundation) (Organized in Cooperation with the Pediatric Infectious Diseases Society (PIDS))
Kingston Mills
Andrew Pollard

Speaker in: Top 10 Papers in Clinical Mycology (Organized in Cooperation with the Immunocompromised Host Society (ICHS) & European Confederation of Medical Mycology (ECMM))
Cornelia Lass-Floerl

2:00 p.m. – 2:30 p.m.
Speaker in: Emerging Viral Infections
Richard Hodinka

Speakers in: Making an Impact: Utilization and Outcomes in the Microbiology Lab
Blake Buchan
Gerald Capraro
Elitza Theel

Speakers in: What’s in the Pipeline? Recently Approved and Experimental Antimicrobial Agents
Michael Pucci
Mel Spigelman
Peter Warn

Speaker in: When the Standard PK/PD Model Does not Apply
Veronique Dartois

MONDAY, JUNE 20

8:15 a.m. – 8:45 a.m.
Speaker in: Answering the Threat of Emerging Viruses
Andrew Pekosz

Speakers in: At the Intersection of Art and Microbiology
Maggie Middleton
Siouxsie Wiles

Speaker in: Cell Architecture and Structure: From Mechanism to Community Structure
Vernita Gordon
Tam Mignot

Speaker in: Influence of Microbial Products on the Gut Microbiota or Host
Peter Turnbaugh

Speaker in: Pixels, Paints, and Pop Culture: Unique Perspectives on Science Communication
Jennifer Gardy

12:30 p.m. – 1:00 p.m.
Speakers in: Antimicrobial Toxicodynamics (Organized in Cooperation with the International Society of Anti-Infective Pharmacology (ISAP))
Jurgen Bulitta
Johan Mouton

Speaker in: AST Update: Clinical and Laboratory Impact
Janet Hindler

Speakers in: Challenges of Infections in Lung Transplantation
Robin Avery
Aric Gregson

Speaker in: Interactive Cases In Pediatric Infectious Diseases (Organized in Cooperation with the Pediatric Infectious Diseases Society (PIDS))
Susan Coffin

Speaker in: Maurice Hilleman Award Lecture
Peter Palese

Speaker in: New Frontiers in HIV Cure
Dan Barouch

Speakers in: New insights into Urinary Tract Infections
M. Lindsay Grayson
Alan Wolfe

Speaker in: Tricky Choices Regarding Appropriate Antimicrobial Prescribing
Mical Paul
1:15 p.m. – 1:45 p.m.
Speaker in: 2016 Cutting Edge Prevention, Diagnosis, and Treatment of Meningitis in Africa (Organized in Cooperation with the American Society of Tropical Medicine and Hygiene (ASTMH))
Suzaan Marais

Speaker in: Aiming at Non-Conventional Approaches to TB Therapies (Supported jointly with the Bill & Melinda Gates Foundation)
Priscille Brodin

Speaker in: Diagnostic and Therapeutic Challenges in MDR and XDR Gram-negatives: A Cases Based Discussion
Robert Bonomo

Speaker in: ICAAC Lecture
Didier Pittet

Speaker in: Lyme Disease 2016 Update
Linden Hu

Speaker in: New insights into Urinary Tract Infections
Deniz Eris

Speaker in: Novel Insights into C. difficile Pathogenesis: Toxins and Beyond
Robert Fagan
Aimee Shen
Gayatri Vedantam

Speaker in: The Resistance Network: Interplay between Environmental, Community and Nosocomial Superbugs (Joint ASM-FEMS Symposium)
Ana Gales
Anton Peleg

Speaker in: Update on the Laboratory Diagnosis of Urinary Tract Infections
Teresa Zembower

2:00 p.m. – 2:30 p.m.
Speaker in: Antimicrobial Resistance among Gram-Positive Bacterial Pathogens: Continuous and Emerging Challenges, Mechanisms and Epidemiology
Birte Vester

Speaker in: Aspergillosis following Viral Infections
Hermann Einsele

Hong Bin Kim

Speaker in: Resistance Surveillance and Public Health
Helio Sader

Speaker in: Treatment of HIV Infection
Rajesh Gandhi
Anna Maria Geretti
ART WALK

Friday, June 18 – Monday, June 20
BCEC, Exhibit and Poster Hall, Halls A and B, Booths 354 – 357

PROGRAM OVERVIEW:
Interested in art? Make sure to visit the booths of select artists (many of them have a science background!) to see their original, microbiology-related artwork. There will be water colour paintings, accessories, glass artwork and more—all inspired by the beautiful world of microbiology.

Artologica 354
www.etsy.com/shop/artologica
Original art and accessories highlighting the beauty of science! Offerings for ASM Microbe 2016 will include microbial watercolors, petri dish ornaments and silk scarves for stylish scientists.

The Vexed Muddler 355
www.thevexedmuddler.com
The Vexed Muddler creates unique hand-crafted ceramic jewelry and accessories inspired and informed by microbial life.

Trilobite Glassworks 356
www.etsy.com/shop/trilobiteglassworks
Jane Hartman is the owner and sole artist of Trilobite Glassworks, producing decorate as well as functional glass art. Jane’s educational background in science is evident in her choice of subjects, which includes everything from insects, fish, and trilobites; to protozoa, planarians and viruses. Though her art is stylized, Jane pays particular attention to scientific detail. She specializes in working directly with scientists to create one of a kind science-based works of art. These connections have led to commissions from around the world in a wide range of biological subject areas. Her work may be seen at various galleries and on her website: www.trilobiteglassworks.weebly.com and www.etsy.com/shop/trilobiteglassworks.

SDSU Research Foundation 357
www.coralandphage.org
We are a California State University - San Diego State University (SDSU). Dr. Forest Rohwer is a Professor and Phage, Coral and Cystic Fibrosis researcher. Leah Pantea and Ben Darby are talented artists who illustrated Dr. Rohwer’s book titled, “Life in Our Phage World.”

WELLNESS ZONE

Friday, June 17 – Monday, June 20
8:00 a.m. – 3:00 p.m.
BCEC, Exhibit and Poster Hall, Halls A and B, Booth #555

PROGRAM OVERVIEW:
The meeting schedule can be hectic, and it is important to take time out to focus on your well-being. Stop by the Wellness Zone for some quick stretching or seated exercises, take a creative mental break in the “play” area, or find a moment of quiet reflection.

FRIDAY, JUNE 17
Yoga Break
11:00 a.m. – 11:15 a.m.
Afternoon Recharge
2:00 p.m. – 2:15 p.m.

SATURDAY, JUNE 18
Yoga Break
12:45 p.m. – 1:00 p.m.
Afternoon Recharge
2:00 p.m. – 2:15 p.m.

SUNDAY, JUNE 19
Yoga Break
12:15 p.m. – 12:30 p.m.
Afternoon Recharge
2:00 p.m. – 2:15 p.m.

MONDAY, JUNE 20
Yoga Break
12:15 p.m. – 12:30 p.m.
Afternoon Recharge
2:00 p.m. – 2:15 p.m.
Posters

**BCEC, Exhibit and Poster Hall, Halls A and B**

**EES**  
Ecological and Evolutionary Science  
Friday - Sessions 034 – 037 (see page 23)  
Saturday - Sessions 151 – 154 (see page 25)  
Sunday - Sessions 277 – 280 (see page 26)

**AES**  
Applied and Environmental Science  
Friday - Sessions 038 – 049 (see page 23)  
Saturday - Sessions 155 – 166 (see page 25)  
Sunday - Sessions 281 – 291 (see page 26)

**CSE**  
Clinical Science and Epidemiology  
Friday - Sessions 050 – 059 (see page 23)  
Saturday - Sessions 167 – 176 (see page 25)  
Sunday - Sessions 292 – 300 (see page 27)  
Monday - Sessions 394 – 413 (see page 28)

**TAP**  
Therapeutics and Prevention  
Friday - Sessions 060 – 066 (see page 24)  
Saturday - Sessions 177 – 185 (see page 25)  
Sunday - Sessions 301 – 310 (see page 27)  
Monday - Sessions 414 – 425 (see page 29)

**HMB**  
Host-Microbe Biology  
Friday - Sessions 067 – 073 (see page 24)  
Saturday - Sessions 186 – 191 (see page 26)  
Sunday - Sessions 311 – 318 (see page 27)  
Monday - Sessions 426 – 432 (see page 29)

**MBP**  
Molecular Biology and Physiology  
Friday - Sessions 074 – 080 (see page 24)  
Saturday - Sessions 192 – 197 (see page 26)  
Sunday - Sessions 319 – 326 (see page 28)

**POM**  
Profession of Microbiology  
Friday - Session 081 (see page 24)  
Saturday - Session 198 (see page 26)  
Sunday - Session 327 (see page 28)

To view the abstracts, please visit the Online Program Planner, ASM events mobile app, or iPosters site.
Poster Presentations, Late-Breaker Presentations and Poster Walks
BCEC, Exhibit and Poster Hall, Halls A and B

FRIDAY, JUNE 17, 2016

Poster Walk Sessions

031 Biofilms in Action
12:30 p.m. – 1:30 p.m.
AES

032 Biofuels and Bioproducts
12:30 p.m. – 1:30 p.m.
AES

Late-Breaker Poster Presentations

033 Friday Late-Breaker Poster Presentations
12:30 p.m. – 2:30 p.m.

Poster Session Presentations

034 Comparative and Evolutionary Genomics
12:30 p.m. – 2:30 p.m.
EES

035 Extremophiles and Astrobiology
12:30 p.m. – 2:30 p.m.
EES

036 Molecular Characterization of Microbial Communities: Methods and Application
12:30 p.m. – 2:30 p.m.
EES

037 Theoretical and Experimental Evolutionary Ecology
12:30 p.m. – 2:30 p.m.
EES

038 Agricultural Microbiology - Animals
12:30 p.m. – 2:30 p.m.
AES

039 Biofuels and Bioproducts I
12:30 p.m. – 2:30 p.m.
AES

040 Bioremediation and Biodegradation I: Oil and PAHs
12:30 p.m. – 2:30 p.m.
AES

041 Detecting Microbes in the Environment I
12:30 p.m. – 2:30 p.m.
AES

042 Fecal Indicators and Pathogens in Water Environments
12:30 p.m. – 2:30 p.m.
AES

043 Fermentation and Biotransformation
12:30 p.m. – 2:30 p.m.
AES

044 Genomics of Foodborne Pathogens
12:30 p.m. – 2:30 p.m.
AES

045 Host-Microbe Interactions
12:30 p.m. – 2:30 p.m.
AES

046 Microbes of Industrial Importance: Isolation, Characterization and Applications
12:30 p.m. – 2:30 p.m.
AES

047 Microbial Response to Petroleum or Fuel Exposure
12:30 p.m. – 2:30 p.m.
AES

048 Prevalence and Detection of Foodborne Pathogens and Toxins
12:30 p.m. – 2:30 p.m.
AES

049 Specialized Detection Methods, Genomic Studies and Pathogens
12:30 p.m. – 2:30 p.m.
AES

050 Antimicrobial Susceptibility Testing of Gram-positive Bacteria
12:30 p.m. – 2:30 p.m.
CSE

051 Biomarkers and Serologic Approaches to Infectious Disease Diagnosis
12:30 p.m. – 2:30 p.m.
CSE

052 Clostridium difficile
12:30 p.m. – 2:30 p.m.
CSE

053 Fungal Susceptibility and Resistance
12:30 p.m. – 2:30 p.m.
CSE

054 Improving Microbiology Test Performance
12:30 p.m. – 2:30 p.m.
CSE

055 Infection Prevention and Control
12:30 p.m. – 2:30 p.m.
CSE

056 Molecular Epidemiology: Gram-positive Organisms
12:30 p.m. – 2:30 p.m.
CSE
057 Molecular Epidemiology: Viruses, Parasites, Fungi and Unusual Microorganisms
12:30 p.m. – 2:30 p.m.
CSE

058 Novel Molecular and Sequencing Technologies for the Detection of a Broad Range of Microbial Pathogens
12:30 p.m. – 2:30 p.m.
CSE

059 Staphylococcus aureus: Anything New from an Old Friend?
12:30 p.m. – 2:30 p.m.
CSE

060 Assessment of Novel Antibacterial Strategies
12:30 p.m. – 2:30 p.m.
TAP

061 Evaluation of Clinical Outcomes among Patients with Gram-negative Bloodstream and Complicated Infections
12:30 p.m. – 2:30 p.m.
TAP

062 Experimental Therapeutics
12:30 p.m. – 2:30 p.m.
TAP

063 ImmunoTherapy
12:30 p.m. – 2:30 p.m.
TAP

064 Inhibiting Acinetobacter spp. and Pseudomonas aeruginosa: New Drugs and Strategies
12:30 p.m. – 2:30 p.m.
TAP

065 New Models and Approaches for Antimicrobial Discovery
12:30 p.m. – 2:30 p.m.
TAP

066 Stewardship Interventions Based on Lab Tests and/or Specific Therapy
12:30 p.m. – 2:30 p.m.
TAP

067 Bacteriophage - Host Interactions
12:30 p.m. – 2:30 p.m.
HMB

068 Fungal-Host and Parasite-Host Interactions
12:30 p.m. – 2:30 p.m.
HMB

069 Genetic and Physiological Adaptation to the Host
12:30 p.m. – 2:30 p.m.
HMB

070 Health and Disease - Perturbation of the System
12:30 p.m. – 2:30 p.m.
HMB

071 Infection and Symbioses with Invertebrate Hosts
12:30 p.m. – 2:30 p.m.
HMB

072 Manipulating the Microbiome
12:30 p.m. – 2:30 p.m.
HMB

073 Microbiome-Host Interactions in the Gut I
12:30 p.m. – 2:30 p.m.
HMB

074 Biofilms: Molecular Biology and Physiology I
12:30 p.m. – 2:30 p.m.
MBP

075 Computational and Biochemical Microbial Protein Characterization
12:30 p.m. – 2:30 p.m.
MBP

076 Phages: Genomics, Biology and Host Interaction
12:30 p.m. – 2:30 p.m.
MBP

077 Proteins and Assemblies
12:30 p.m. – 2:30 p.m.
MBP

078 Regulation of Gene Expression by RNA Elements
12:30 p.m. – 2:30 p.m.
MBP

079 Stress and Stimulus Response Mechanisms I: Temperature, Growth, and Acid
12:30 p.m. – 2:30 p.m.
MBP

080 Structural Biology
12:30 p.m. – 2:30 p.m.
MBP

081 Biosafety, Biosecurity and Biodefense
12:30 p.m. – 2:30 p.m.
POM

Poster Walk Session

084 Don’t Drink the Water!
1:30 p.m. – 2:30 p.m.
AES

AESApplied and Environmental Science
CSEClinical Science and Epidemiology
EESEcological and Evolutionary Science
HMBHost-Microbe Biology
MBPMolecular Biology and Physiology
TAPTherapeutics and Prevention
POMPProfession of Microbiology
**SATURDAY, JUNE 18, 2016**

**Poster Walk Sessions**

148 Antimicrobial Resistance: Different Perspectives, Same Worries  
12:45 p.m. – 1:45 p.m.  
**TAP**

149 Clinical and Translational Mycology  
12:45 p.m. – 1:45 p.m.  
**CSE**

**Late-Breaker Poster Presentations**

150 Saturday Late-Breaker Poster Presentations  
12:45 p.m. – 2:45 p.m.

**Poster Session Presentations**

151 Functional Genomics and Genomic Methods  
12:45 p.m. – 2:45 p.m.  
**EES**

152 Nutrient Cycling and Biogeochemistry  
12:45 p.m. – 2:45 p.m.  
**EES**

153 Patterns and Mechanisms in Molecular Evolution  
12:45 p.m. – 2:45 p.m.  
**EES**

154 Polymicrobial Interactions of Ecological or Evolutionary Significance  
12:45 p.m. – 2:45 p.m.  
**EES**

155 Agricultural Microbiology - Plants  
12:45 p.m. – 2:45 p.m.  
**AES**

156 Biofilms in Applied and Environmental Sciences I  
12:45 p.m. – 2:45 p.m.  
**AES**

157 Biofuels and Bioproducts II  
12:45 p.m. – 2:45 p.m.  
**AES**

158 Bioremediation and Biodegradation II: Pesticides, Pharmaceuticals, Explosives and Dyes  
12:45 p.m. – 2:45 p.m.  
**AES**

159 Bioremediation and Biodegradation III: Metals and Inorganic Compounds  
12:45 p.m. – 2:45 p.m.  
**AES**

160 Detecting Microbes in the Environment II  
12:45 p.m. – 2:45 p.m.  
**AES**

161 Detection and Characterization of Environmental Pathogens  
12:45 p.m. – 2:45 p.m.  
**AES**

162 Genetic Analysis of Environmental Microbes  
12:45 p.m. – 2:45 p.m.  
**AES**

163 Microbes Meet the Atmosphere  
12:45 p.m. – 2:45 p.m.  
**AES**

164 Surveys and Fate of Antimicrobial Resistant Bacteria  
12:45 p.m. – 2:45 p.m.  
**AES**

165 Use of ‘Omics to Study Metabolic Function  
12:45 p.m. – 2:45 p.m.  
**AES**

166 Water Pollutants - Biosensors and Bioremediation  
12:45 p.m. – 2:45 p.m.  
**AES**

167 Antimicrobial Susceptibility Testing of Glucose Non-fermenting Gram-negative Bacteria: *Acinetobacter, Pseudomonas, and Stenotrophomonas*  
12:45 p.m. – 2:45 p.m.  
**CSE**

168 Antimicrobial Susceptibility Testing of Gram-negative Bacteria: Enterobacteriaceae  
12:45 p.m. – 2:45 p.m.  
**CSE**

169 Gastrointestinal Pathogens Genomics and Epidemiology  
12:45 p.m. – 2:45 p.m.  
**CSE**

170 Hospital Epidemiology  
12:45 p.m. – 2:45 p.m.  
**CSE**

171 Human Mycotic Infections  
12:45 p.m. – 2:45 p.m.  
**CSE**

172 Infections in Immunocompromised Hosts and Cancer Patients  
12:45 p.m. – 2:45 p.m.  
**CSE**

173 Mechanisms of Resistance Associated with Specific Antibiotics  
12:45 p.m. – 2:45 p.m.  
**CSE**

174 Molecular Epidemiology: Non-Enterobacteriaceae  
12:45 p.m. – 2:45 p.m.  
**CSE**

175 Nosocomial Infections: Epidemiology and Outcomes  
12:45 p.m. – 2:45 p.m.  
**CSE**

176 Rapid Methods for Detection of Antimicrobial Resistance  
12:45 p.m. – 2:45 p.m.  
**CSE**

177 Antibiotics from Ocean and Soil Microbes, and Bioinspired Antimicrobial Therapeutics  
12:45 p.m. – 2:45 p.m.  
**TAP**

178 Antimicrobial Resistance Mechanisms in Gram-positive Pathogens  
12:45 p.m. – 2:45 p.m.  
**TAP**
179 Characterization of Hits and Leads from Antimicrobial Screening
12:45 p.m. – 2:45 p.m.
TAP

180 Combined Therapeutics, New Approaches
12:45 p.m. – 2:45 p.m.
TAP

181 Facing Resistance with New Antibacterial Agents and Non-antibiotic Approaches
12:45 p.m. – 2:45 p.m.
TAP

182 Macrolides, Oxazolidones and Related Compounds I
12:45 p.m. – 2:45 p.m.
TAP

183 Novel Vaccine Approaches
12:45 p.m. – 2:45 p.m.
TAP

184 Polymyxins and Lipopeptides and Related Compounds
12:45 p.m. – 2:45 p.m.
TAP

185 Programmatic Approaches to Antimicrobial Stewardship
12:45 p.m. – 2:45 p.m.
TAP

186 *C. difficile*: Microbiome Outside the Gut
12:45 p.m. – 2:45 p.m.
HMB

187 Innate Immunity and Cell-Autonomous Defense
12:45 p.m. – 2:45 p.m.
HMB

188 Microbial Adherence, Invasion and Colonization I
12:45 p.m. – 2:45 p.m.
HMB

189 Microbiome-Host Interactions in the Gut II
12:45 p.m. – 2:45 p.m.
HMB

190 Virulence and Survival Strategies of Extracellular Bacteria
12:45 p.m. – 2:45 p.m.
HMB

191 Virus-Host Interaction I
12:45 p.m. – 2:45 p.m.
HMB

192 Bacterial and Fungal Genomics
12:45 p.m. – 2:45 p.m.
MBP

193 Biofilms: Molecular Biology and Physiology II
12:45 p.m. – 2:45 p.m.
MBP

194 Cell Cycle, Cell Division, and Morphogenesis
12:45 p.m. – 2:45 p.m.
MBP

195 Gene Regulatory Mechanism I
12:45 p.m. – 2:45 p.m.
MBP

196 Regulation of Growth, Development and Metabolism
12:45 p.m. – 2:45 p.m.
MBP

197 Stress and Stimulus Response Mechanisms II: Antibiotics, Redox and Metals
12:45 p.m. – 2:45 p.m.
MBP

198 Innovative Teaching and Outreach
12:45 p.m. – 2:45 p.m.
POM

### Poster Walk Sessions

201 Antiretroviral Therapy: Still Room to Improve
1:45 p.m. – 2:45 p.m.
TAP

202 Polymicrobial Interactions of Ecological or Evolutionary Significance
1:45 p.m. – 2:45 p.m.
EES

### Sunday, June 19, 2016

**Poster Walk Sessions**

274 Pediatric Potpourri & HSV Vaccine
12:30 p.m. – 1:30 p.m.
CSE

275 PK/PD Approaches against Serious Infections
12:30 p.m. – 1:30 p.m.
TAP

**Late-Breaker Poster Presentations**

276 Sunday Late-Breaker Poster Presentations
12:30 p.m. – 2:30 p.m.

**Poster Session Presentations**

277 Carbon and Energy Flux in Aquatic and Marine EcoSystems
12:30 p.m. – 2:30 p.m.
EES

278 Ecology of Viruses and Phage
12:30 p.m. – 2:30 p.m.
EES

279 Microbial Response to Climate Change
12:30 p.m. – 2:30 p.m.
EES

280 Omics to Study EcoSystem Function
12:30 p.m. – 2:30 p.m.
EES

281 Agricultural Microbiology - Soils
12:30 p.m. – 2:30 p.m.
AES

282 Antimicrobial Resistance Genes, Mechanisms, and Metagenomics
12:30 p.m. – 2:30 p.m.
AES

283 Biofilms in Applied and Environmental Sciences II
12:30 p.m. – 2:30 p.m.
AES
284 Bioremediation and Biodegradation IV: Chlorinated Organic Compounds and Other Processes  
12:30 p.m. – 2:30 p.m.  
AES

285 Control of Foodborne Pathogens  
12:30 p.m. – 2:30 p.m.  
AES

286 Detecting Microbes in the Environment III  
12:30 p.m. – 2:30 p.m.  
AES

287 Metabolic functions in Environmental Microbes  
12:30 p.m. – 2:30 p.m.  
AES

288 New Tools for the Study of Environmental Microbes  
12:30 p.m. – 2:30 p.m.  
AES

289 Novel Antimicrobials, Natural Products and New Approaches  
12:30 p.m. – 2:30 p.m.  
AES

290 Prevalence, Control and Lactic Acid Bacteria  
12:30 p.m. – 2:30 p.m.  
AES

291 Water Quality and Microbial Source Tracking  
12:30 p.m. – 2:30 p.m.  
AES

292 Carbapenem Resistance  
12:30 p.m. – 2:30 p.m.  
CSE

293 Detection and Characterization of ESBLs and Carbapenemases  
12:30 p.m. – 2:30 p.m.  
CSE

294 Evolving Methods and Laboratory Improvements in the Detection of Common Non-Enteric Infectious Diseases Syndromes  
12:30 p.m. – 2:30 p.m.  
TAP

295 Gram-negative Bacilli Genomics and Epidemiology  
12:30 p.m. – 2:30 p.m.  
CSE

296 Improvements in Laboratory Methods for Gram-positive and Gram-negative Pathogen Identifications  
12:30 p.m. – 2:30 p.m.  
CSE

297 Infectious Diseases Risks and Outcomes  
12:30 p.m. – 2:30 p.m.  
CSE

298 Other Viral Infections  
12:30 p.m. – 2:30 p.m.  
CSE

299 Prevention and Treatment of Infections in Transplant Recipients  
12:30 p.m. – 2:30 p.m.  
CSE

300 The Utility of MALDI-ToF MS for Organism Identification and Resistance Detection  
12:30 p.m. – 2:30 p.m.  
CSE

301 Antifungal Mechanisms  
12:30 p.m. – 2:30 p.m.  
TAP

302 Antimicrobial Resistance in Foodborne and Zoonotic Pathogens  
12:30 p.m. – 2:30 p.m.  
TAP

303 Antiretroviral Drugs (from Present to Future) and Impact of HIV on Other Drugs  
12:30 p.m. – 2:30 p.m.  
TAP

304 Basic Mycology  
12:30 p.m. – 2:30 p.m.  
TAP

305 Beta-Lactamase and Carbapenemase Inhibitors I  
12:30 p.m. – 2:30 p.m.  
TAP

306 Fluoroquinolones and Other Topoisomerase Inhibitors  
12:30 p.m. – 2:30 p.m.  
TAP

307 Macrolides, Oxazolidones and Related Compounds II  
12:30 p.m. – 2:30 p.m.  
TAP

308 Personalized Pharmacokinetic/Pharmacodynamic (PK/PD)  
12:30 p.m. – 2:30 p.m.  
TAP

309 Pre-Clinical Pharmacokinetic/Pharmacodynamic (PK/PD)  
12:30 p.m. – 2:30 p.m.  
TAP

310 Resistance Mechanisms in Clinically Relevant Gram-negatives I  
12:30 p.m. – 2:30 p.m.  
TAP

311 Host Immunopathology  
12:30 p.m. – 2:30 p.m.  
HMB

312 Microbial Adherence, Invasion, and Colonization II  
12:30 p.m. – 2:30 p.m.  
HMB

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AES  
Applied and Environmental Science

CSE  
Clinical Science and Epidemiology

EES  
Ecological and Evolutionary Science

HMB  
Host-Microbe Biology

MBP  
Molecular Biology and Physiology

TAP  
Therapeutics and Prevention

POM  
Profession of Microbiology
313 Microbiome: Plants and Nonhuman Hosts
12:30 p.m. – 2:30 p.m.
HMB

314 Mycobacterial Pathogenesis
12:30 p.m. – 2:30 p.m.
HMB

315 Redox Biology of Host-Pathogen Interactions
12:30 p.m. – 2:30 p.m.
HMB

316 Toxins and Secreted Virulence Factors I
12:30 p.m. – 2:30 p.m.
HMB

317 Virulence and Survival Strategies of Intracellular Bacteria
12:30 p.m. – 2:30 p.m.
HMB

318 Virus-Host Interaction II
12:30 p.m. – 2:30 p.m.
HMB

319 Gene Regulatory Mechanism II: Global Approaches
12:30 p.m. – 2:30 p.m.
MBP

320 Genetic Tools and Analytical Techniques
12:30 p.m. – 2:30 p.m.
MBP

321 Genomic and Bioinformatic Techniques
12:30 p.m. – 2:30 p.m.
MBP

322 Microbial Membrane Biology
12:30 p.m. – 2:30 p.m.
MBP

323 Mobile Genetic Elements and Horizontal Gene Transfer
12:30 p.m. – 2:30 p.m.
MBP

324 Regulation of Motility, Movement, and Surface Commitment
12:30 p.m. – 2:30 p.m.
MBP

325 Replication/Repair/Recombination
12:30 p.m. – 2:30 p.m.
MBP

326 Stress and Stimulus Response Mechanisms III: Host, Virulence, DNA Damage and Others
12:30 p.m. – 2:30 p.m.
MBP

327 Back to the Future: Past History and Future Development of the Profession
12:30 p.m. – 2:30 p.m.
POM

330 Global Regulatory Responses to Environmental Stimuli
1:30 p.m. – 2:30 p.m.
MBP

MONDAY, JUNE 20, 2016

390 Advancing Transplant Infectious Diseases: Current Research
12:30 p.m. – 1:30 p.m.
CSE

391 From Transport to Microbial Detection: Considerations in the Diagnosis of Bacteremia
12:30 p.m. – 1:30 p.m.
CSE

392 Infection Control and Epidemiology
12:30 p.m. – 1:30 p.m.
CSE

393 Monday Late-Breaker Poster Presentations
12:30 p.m. – 2:30 p.m.

394 Antimicrobial Susceptibility Testing of Newer and Renewed Antimicrobial Agents
12:30 p.m. – 2:30 p.m.
CSE

395 Antimicrobial Susceptibility Testing: Method Development and Optimization, Susceptibility Testing of Unusual Bacteria
12:30 p.m. – 2:30 p.m.
CSE

396 Assorted Issues in Global and Public Health
12:30 p.m. – 2:30 p.m.
CSE

397 Detection and Spread of Resistance in Mycobacterium Species
12:30 p.m. – 2:30 p.m.
CSE

398 Detection of Bacteremia and Endocarditis
12:30 p.m. – 2:30 p.m.
CSE

399 Detection, Identification and Strain Typing of Mycobacterium Species
12:30 p.m. – 2:30 p.m.
CSE

400 Drugs, Bugs, Body Sites and Antibiograms
12:30 p.m. – 2:30 p.m.
CSE

AES
Applied and Environmental Science
CSE
Clinical Science and Epidemiology
EES
Ecological and Evolutionary Science
HMB
Host-Microbe Biology
MBP
Molecular Biology and Physiology
TAP
Therapeutics and Prevention
POM
Profession of Microbiology

28 • ASM MICROBE 2016
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>401</td>
<td>Emerging Technologies for Organism Identification, Clinical Characteristics and Epidemiology</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>402</td>
<td>Environmental Conditions and Infectious Diseases Burden</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>403</td>
<td>Evaluation of New and Existing Methods for Enteric Pathogen Detection and Assessment of the Gut Microbiome</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>404</td>
<td>Fungal Diagnosis: Laboratory Methods</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>405</td>
<td>Hepatitis and HIV Infections</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>406</td>
<td>Laboratory Diagnosis and Antimicrobial Susceptibility of UTI Pathogens</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>407</td>
<td>Laboratory Diagnosis of Respiratory Infections</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>408</td>
<td>Miscellaneous Clinical Applications of Genomics and Epidemiology</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>409</td>
<td>Molecular Epidemiology: Enterobacteriaceae</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>410</td>
<td>Multi-resistant Gram-negative Bacteria and ESBL</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>411</td>
<td>Parasitology, Anti-Parasitic Agents, Emerging Infections and Global Health</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>412</td>
<td>Sexually Transmitted Infections</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>413</td>
<td>Specific Pathogens</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>CSE</td>
</tr>
<tr>
<td>414</td>
<td>Antimicrobial Activity of Honey, Propolis, Pomegranate, Green Tea and Other Phytochemicals</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>415</td>
<td>Antiviral Agents Old and New</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>416</td>
<td>Beta-Lactamase and Carbapenemase Inhibitors II</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>417</td>
<td>Clostridium difficile: Efficacy of New Therapeutic Interventions</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>418</td>
<td>Evaluation of efficacy of New Drugs and Inhibitors</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
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<tr>
<td>419</td>
<td>Mycobacteria in Focus: Antimicrobial Resistance and Approaches to Fight against It</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>420</td>
<td>Pharmacokinetic/Pharmacodynamic (PK/PD) in Special Populations</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>421</td>
<td>Pharmacokinetic/Pharmacodynamic (PK/PD) of New Drugs</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
</tr>
<tr>
<td>422</td>
<td>Resistance Mechanisms in Clinically relevant Gram-negatives II</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
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<tr>
<td>423</td>
<td>Structure-based Design and High Through Put Screening</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
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<tr>
<td>424</td>
<td>Tetracyclines, Aminoglycosides, and Related Compounds</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
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<tr>
<td>425</td>
<td>Vaccination: Population Studies, Evaluation and Development of Improved Vaccines</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>TAP</td>
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<tr>
<td>426</td>
<td>Acquired Immunity and Vaccination</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
</tr>
<tr>
<td>427</td>
<td>Coinfection and Polymicrobial Interactions</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
</tr>
<tr>
<td>428</td>
<td>Manipulations of Host Functions by Microbes</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
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<tr>
<td>429</td>
<td>Novel Infection Models and Methodology</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
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<tr>
<td>430</td>
<td>Surface Structures of Pathogenic Bacteria</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
</tr>
<tr>
<td>431</td>
<td>Toxins and Secreted Virulence Factors II</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
</tr>
<tr>
<td>432</td>
<td>Transcriptional Regulation of Virulence</td>
<td>12:30 p.m. – 2:30 p.m.</td>
<td>HMB</td>
</tr>
</tbody>
</table>
Outstanding Student Abstracts

The recipients of ASM Microbe 2016 Outstanding Student Abstract are:

**Sarah Ainsworth**  
Characterization of a Live Attenuated Vaccine for Protection against Multidrug-Resistant *Acinetobacter baumannii*  
S. Ainsworth1, P. Ketter2, J-J. Yu1, M. Guentzel1, B. Arulanandam1; 1Univ. of Texas at San Antonio, San Antonio, TX, 2US Army Inst. for Surgical Res., JBSA-Fort Sam Houston, TX

**Erin Almand**  
Characterizing Human Norovirus Binding to Bacterial Ligands  
E. Almand, M. Moore, L-A. Jaykus; North Carolina State Univ., Raleigh, NC

**Maria Teresa Alvarez-Zúñiga**  
Charbohydrate-Active Enzymes from the Zygomycete *Lichtheimia ramosa Strain h71D*  
M. Alvarez-Zúñiga1, J. Ayala-Sumuano3, C. Cano-Ramírez1, M. Hidalgo-Lara1; 1Ctr. de Investigación y Estudios Avanzados del Inst. Politécnico Natl., Distrito Federal, Mexico, 2Univ. Natl. Autónoma de México, Querétaro, Mexico

**Rudra Bhowmick**  
Studying the Response of Alveolar Epithelial Cells in a Three-Dimensional Tissue-Equivalent Respiratory Model to Influenza A Virus Infections  
R. Bhowmick, H. Gappa-Fahlenkamp; Oklahoma State Univ., Stillwater, OK

**Jesse Black**  
Host-Pathogen Interaction Network Among *Sulfolobus islandicus* and Its Viruses  
J. A. Black, M. A. Bautista, R. J. Whitaker; Univ. of Illinois at Urbana-Champaign, Urbana, IL

**Dylan Boehm**  
Evaluating the Inclusion of Adenylate Cyclase Toxin Antigen into the Acellular Pertussis Vaccine  
D. T. Boehm1, J. Bevere1, E. Sen1, J. A. Maynard2, E. L. Hewlett3, M. Barbier1, F. H. Damron1; 1West Virginia Univ., Morgantown, WV, 2Univ. of Texas at Austin, Austin, TX, 3Univ. of Virginia, Charlottesville, VA

**Olesea Cojohari**  
Human Cytomegalovirus Induces And Sustains Akt Activity Through A Unique Modulation of Its Regulators to Mediate Monocyte Survival  
O. Cojohari, M. A. Peppenelli, G. C. Chan; SUNY Upstate Med. Univ., Syracuse, NY

**Sam Collier**  
A Cost-Effective Dual Platform Algorithm for Rapid Molecular Detection of Organisms in Positive Blood Culture Bottles  

**Kurt Dahlstrom**  
*Pseudomonas fluorescens Integrates Environmental Information Across a Large C-di-GMP Network*  
K. M. Dahlstrom2, A. Collins1, C. E. Harty1, T. Gauvin1, J. Rudd1, C. Greene2, G. A. O’Toole1; 1Geisel Sch. of Med. at Dartmouth, Hanover, NH, 2Univ. of Pennsylvania, Perelman Sch. of Med., Philadelphia, PA

**John Darcy**  
Community Assembly and Phylodiversity Accumulation in the Human Microbiome  
J. L. Darcy1, A. Washburne2, T. Prest2, S. K. Schmidt1, D. R. Nemergut2; 1Univ. of Colorado, Boulder, CO, 2Duke Univ., Durham, NC

**Wayne Xianding Deng**  
Whole-Genome Sequencing Reveals the Origin and Rapid Evolution of an Emerging Outbreak Strain *Streptococcus pneumoniae 12F*  
W. Deng1, G. Peirano2, E. Schillberg3, T. Mazzulli1, S. D. Gray-Owen1, J. L. Wylie4, D. Robinson5, S. M. Mahmud6, D. R. Pillai7; 1Univ. of Toronto, Toronto, ON, Canada, 2Univ. of Calgary, Calgary, AB, Canada, 3Winnipeg Hlth. Authority, Winnipeg, MB, Canada, 4Cadham Provincial Lab., Winnipeg, MB, Canada, 5Univ. of Mississippi, Jackson, MS, 6Univ. of Manitoba, Winnipeg, MB, Canada

**Jasmine Donkoh**  
Mosquitocidal Properties of Igg Targeting the Voltage Gated Sodium Channel in Malaria Vector *Anopheles gambiae*  
J. Donkoh1, J. Meyers2, B. Foy3; 1Colorado State Univ., Fort Collins, CO, 2Texas A&M Univ., College Station, TX

**Robert Dorosky**  
Characterization of the R-Pyocin Gene Cluster of *Pseudomonas chlororaphis* 30-84  
R. Dorosky, L. S. Pierson, III, E. A. Pierson; Texas A&M Univ., College Station, TX

**Tammi Duncan**  
Bacterial Siderophores in the Underworld: Siderophore Production by Cave Bacteria in Carlsbad Caverns National Park  
T. R. Duncan, D. E. Northup, M. Werner-Washburne; Univ. of New Mexico, Albuquerque, NM

**Ioannis Eugenis**  
Optogenetic Investigation of *Neisseria* Species Motility During the Formation of Microcolonies  
I. Eugenis1, K. Gardner2, N. Biais1; 1Brooklyn Coll. of the City Univ. of New York, Brooklyn, NY, 2City Coll. of the City Univ. of New York, New York, NY
Natalie Griswold
Efficacy of Rapid Diagnostic Tests for Malaria in Children of Rural Ghana

N. Griswold¹, T. Dickerson¹, J. Reynolds¹, D. Ansong², C. Nkyi², J. M. Boaheng², E. Amuzu², S. Gren¹, M. V. M. Morhe², P. A. Kontor², O. A. Owusu², M. G. Quansah², R. Buxton¹; ¹Univ. of Utah, Salt Lake City, UT, ²Kwame Nkrumah Univ. of Sci. and Technology, Kumasi, Ghana

Lindsey Hardison
Plant-Derived Human Papillomavirus L2 Capsid Protein N-Terminal Region Fused to Hepatitis B Core Virus-Like Particle Vaccine Induces Neutralizing Antibodies in Mice

L. Hardison; Arizona State Univ., Tempe, AZ

Olivia Healy
Nitrate-dependent Iron Oxidation by an Autotrophic, Moderately Acidophilic Geobacter sp. Team09 Isolated from Unsaturated Soil

O. M. Healy¹, J. Souchek¹, A. Heithoff¹, B. LaMere¹, C. L. Anderson¹, D. Pan¹, W. H. Yang², W. L. Silver², S. C. Fernando¹, K. A. Weber¹; ¹Univ. of Nebraska-Lincoln, Lincoln, NE, ²Univ. of California-Berkeley, Berkeley, CA

Douglas Henderson
Is Specialization a Typical Outcome of 1000 Generations of Evolution in Mutualism

D. Henderson; Univ. of Washington Bothell, Bothell, WA

Xin Hou
Sequencer-Based Capillary Gel Electrophoresis (SCGE) Targeting the rDNA Internal Transcribed Spacer (ITS) Regions for Accurate Identification of Candida, Cryptococcus, Trichosporon and Other Yeast Species

X. Hou¹, M. Xiao¹, S. C. Chen², H. Wang¹, L. Zhang¹, X. Fan¹, Z-P. Xu¹, F. Kong², Y-C. Xu²; ¹Peking Union Med. Coll. Hosp., Beijing, China, ²Westmead Hosp., Univ. of Sydney, Sydney, Australia

Albert Jeon
2-Aminimidazole Based Small Molecule Compound Potentiates Bactericidal Activity of ß-Lactam Drugs against Mycobacterium tuberculosis

A. B. Jeon¹, D. Ackart¹, A. Obregon-Henao¹, B. Podell¹, J. Belardinelli¹, M. Jackson¹, R. Melander², C. Melander², R. Basaraba¹; ¹Colorado State Univ., Fort Collins, CO, ²North Carolina State Univ., Raleigh, NC

Yichang Liu
RNA-Seq Data Reveals Sigma H-Dependent Regulation of Competence Genes in Listeria monocytogenes

Y. Liu, R. H. Orsi, K. J. Boor, M. Wiedmann, V. Guariglia-Oropeza; Cornell Univ., Ithaca, NY

Neha Malhotra
Eukaryotic-Type Serine/Threonine Kinase Mediated Regulation of Phosphodiesterase from Mycobacterium tuberculosis

N. Malhotra, P. Chakraborti; CSIR-Inst. of Microbial Technology, Chandigarh, India

Katherine Mann
DDI3: A Novel Player in the Mycobacterial Replisome

K. M. Mann, D. Huang, C. L. Stallings; Washington Univ. in St. Louis, Saint Louis, MO

Franki Mayer
Interactions and Metabolic Output of Acetoclasitc Hydrogenotrophic Archaea Grown in Co-Culture With Cellulose Degrading Bacteria

F. S. Mayer; Univ. of Wisconsin Oshkosh, Oshkosh, WI

Matthew Moore
Differences in Heat Susceptibility of Human Norovirus Strains is Predicted by Docking and Molecular Dynamics Simulations

M. Moore, B. Mertens, B. Bobay, L-A. Jaykus; North Carolina State Univ., Raleigh, NC

Marisa Myers
Perchlorate-Coupled Carbon Monoxide Oxidation by Extremely Halophilic Halobacteriaceae

M. R. Myers, G. King; Louisiana State Univ., Baton Rouge, LA

Sarisa Na Pombejra
Exploring the Host Targets of MPR1, a Fungal Metalloprotease That Facilitates the Transmigration of Cryptococcus neoformans Across the Blood-Brain Barrier

S. Na Pombejra¹, C. Zhang², M. Salemi¹, B. S. Phinney¹, A. Gelli²; ¹Univ. of California, Davis, CA, ²Second Military Med. Univ., Shanghai, China

Sheo Pandey
Co-Regulation of Xanthomonas campestris Iron Homeostasis, Chemotaxis, and Motility by Accessible Iron and a Novel Iron-Responsive Transcriptional Regulator XibR

S. S. Pandey, P. K. Patnana, S. Chatterjee; Ctr. for DNA Fingerprinting and Diagnostics, Hyderabad, India
April Pawluk
Inactivation of CRISPR-Cas Systems by Anti-CRISPR Proteins in Diverse Bacteria
A. Pawluk1, R. H. J. Staals2, C. Taylor2, B. N. J. Watson2, F. C. Fineran2, K. L. Maxwell3, A. R. Davidson1; 1Univ. of Toronto, Toronto, ON, Canada, 2Univ. of Otago, Dunedin, New Zealand, 3Donnelly Ctr. for Cellular and Biomolecular Res., Toronto, ON, Canada

Stephanie Penix
Patterns of Mutation in Acid-Evolved Strains of Escherichia coli

Harishita Prithiviraj
Plant Natural Products Potentiate Antimicrobial Activity of Antibiotics against Pseudomonas aeruginosa
H. Prithiviraj1, G. Kulshreshtha2, B. Prithiviraj1; 1Cobequid Ed.al Ctr., Truro, NS, Canada, 2Dalhousie Univ., Truro, NS, Canada

Evelyn Puspitasari
Effects of Lactulose on Growth Kinetics, Fermentation, Antioxidant Activity, and Short-Chain Fatty Acid Production of Probiotics
E. Puspitasari, C. K. Yeung, M. Yeung; California Polytechnic State Univ. San Luis Obispo, San Luis Obispo, CA

Jeremy Ritzert
Spatial and Temporal Expression Dynamics of a Global Bacterial Transcriptional Regulator during Pneumonic Plague
J. T. Ritzert1, L. Sobieraj1, J. T. Koo2, W. W. Lathem1; 1Northwestern Univ., Chicago, IL, 2Wheaton Coll., Wheaton, IL

Thiago Santos
Iron Starvation Inhibits Late Stages of Bacterial Cell Division and Arrests Cytokinesis
T. Santos, Y.-J. Eun, M. Zhou, M. Lammers, K. Hurley, Q. Cui, D. Weibel; Univ. of Wisconsin - Madison, Madison, WI

Nicholas Smith
Probability of Target Attainment for Meropenem (Mero) and Polymyxin B (PB) Combinations against Carbapenem-Resistant Acinetobacter baumannii (CRAB)

Maria Soto-Giron
Comparative Genomic Analysis of Genetic Exchange among Bacteria Species
M. J. Soto-Giron, L. M. Rodriguez-R, K. T. Konstantinidis; Georgia Inst. of Technology, Atlanta, GA

Sabrina Stanley
The Race for Survival: Anti-Crispr and Crispr Dynamics in Pseudomonas aeruginosa
S. Y. Stanley1, J. Bondy-Denomy2, A. R. Davidson3; 1Univ. of Toronto, Toronto, ON, Canada, 2Univ. Of California, San Francisco, San Francisco, CA

Yizhi Tang
Identification of a Novel Plasmid-Borne Multidrug-Resistence Gene, cfr(C), in Campylobacter coli
Y. Tang, L. Dai, O. Sahin, Q. Zhang; Iowa State Univ., Ames, IA

Shawn Whitefield
Genomic and Epidemiological Determinants of Enterobacter cloacae Transmission
S. E. Whitefield1, L. L. Washer2, C. A. Scipone3, C. R. Dombeck2, D. W. Newton2, E. S. Snitkin1; 1Univ. of Michigan Med. Sch., Ann Arbor, MI, 2Univ. of Michigan Hlth. Sys., Ann Arbor, MI

Sarah Wolfson
Anaerobic Transformation of Naproxen by Methanogenic and Sulfidogenic Consortia
S. J. Wolfson, A. W. Porter, L. Y. Young; Rutgers Univ., New Brunswick, NJ

Xin Xu
Instantaneous Antimicrobial Susceptibility Testing (AST) Using Piezoelectric Plate Sensors
X. Xu1, C. L. Emery2, B. Sen1, K. Krevolin2, S. G. Joshi1, W-H. Shih1, W. Y. Shih1; 1Drexel Univ., Philadelphia, PA, 2Drexel Univ. - Hahnemann Univ. Hosp., Philadelphia, PA

Ponkrith Yeesin
An Accessory Helicase PcrA and Recombination Proteins Mitigate Replication-Transcription Collisions in Bacillus subtilis
P. Yeesin1, A. Bittner1, J. Peng2, A. Medina2, M. Schmitz3, J. Wang4; 1Univ. of Wisconsin-Madison, MADISON, WI, 2Baylor Coll. of Med., Houston, TX

Phillip Yen
Antibiotic History Influences Microbial Evolutionary Dynamics in Subsequent Treatment
P. Yen, J. Papin; Univ. of Virginia, Charlottesville, VA

Yutaka Yoshii
Identification of ABC-JK2, a Small Molecule Inhibitor of Staphylococcal Biofilm Formation
Y. Yoshii1, K-i. Okuda1, S. Yamada1, M. Nagakura1, S. Sugimoto1, T. Nagano2, T. Okabe2, H. Kojima2, Y. Mizunoe1; 1The Jikei Univ. Sch. of Med., Tokyo, Japan, 2The Univ. of Tokyo, Tokyo, Japan

Feiqiao (Brian) Yu
Microfluidics Based Mini-Metagenomics Improves the Discovery of Novel Microbial Organisms
F. Yu1, R. Malmstrom2, T. Woyke2, M. Horowitz1, S. Quake1; 1Stanford Univ., Stanford, CA, 2Joint Genome Inst., Walnut Creek, CA
Visit booth 1436

...and learn what our portfolio of products can do for your patients.
Industry & Science Activities

Hosted by ASM Microbe 2016 exhibitors, these educational events are intended to complement the official ASM program and enrich the attendee experience.

- **Industry & Science Courses** will be held the morning of Friday, June 17 at the Renaissance Hotel. No registration fee is required to attend these activities, but space is limited to the first 100 attendees.

- **Industry & Science Symposia** will be held each evening of ASM Microbe 2016 at nearby hotels or at the Boston Convention and Exhibition Center. These events can cover one or several topics, and may offer continuing education credits.

- **Industry & Science Showcases** will be held on the Exhibit and Poster Hall floor during various times throughout the course of the day. Each showcase is limited to 45 minutes and will feature product demonstrations and/or education about a company’s products or services.

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### Industry & Science Courses

**FRIDAY, JUNE 17**

**Improving Molecular Laboratory Testing through the application of Six-Sigma Metric**

Supported by **Abbott**

8:15 a.m. – 11:45 a.m.

Renaissance Boston Waterfront Hotel, Pacific Grand Ballroom A

**PRESENTERS:**

Sten Westgard, MS; Westgard QC Inc.

Dr. Danijela Lucic, PhD; Global Senior Scientific Affairs Manager, Abbott Molecular

**OVERVIEW:**

Join Sten Westgard M.S., Westgard QC Inc, originators of the Westgard Rules for Quality Control and Dr. Danijela Lucic, Global Senior Scientific Affairs Manager, Abbott Molecular as we learn about Westgard and Six-Sigma concepts and their application in the molecular laboratory. This course will explore how analytical performance can influence the quality of test results and what it takes to achieve a Six Sigma Performance. We will introduce newly developed tools which will allow laboratories the ability to monitor their own performance through Six-Sigma Metric.
Industry & Science Symposia

FRIDAY, JUNE 17

Invasive Mycoses: Emerging Paradigms & Practical Applications

Supported by independent educational grants from: Astellas; Merck & Co, Inc; Gilead Sciences Europe, Ltd.; and T2 Biosystems.
7:00 p.m. – 10:00 p.m.
Westin Boston Waterfront, Marina Ballroom

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the University of Nebraska Medical Center, Center for Continuing Education; Terranova Medica, LLC; and the Mycoses Study Group Education & Research Consortium.

MODERATOR:
Peter G. Pappas, MD, FACP; William E. Dismukes Professor of Medicine; Principal Investigator, Mycoses Study Group; Division of Infectious Diseases; Univ. of Alabama at Birmingham; Birmingham, AL

PRESENTATIONS:
Diagnostics: Emerging Data
Maiken Cavling Arendrup, Prof, MD, PhD, DMSc; Head, Mycology Unit; Microbiology & Infection Control; Statens Serum Institut; Copenhagen, Denmark

Therapeutics: Emerging Data and Pharmacologic Implications
Elizabeth S. Dodds Ashley, PharmD, MHS; Liaison Pharmacist; Duke Antimicrobial Stewardship Outreach Network; Duke University Medical Center; Durham, NC

Changing Paradigms in IFD Management
Thomas F. Patterson, MD, FACP; Professor of Med, and Chief, Division of Infectious Diseases; Univ. of Texas Health Science Ctr; Director, San Antonio Ctr for Medical Mycology; San Antonio, TX

Case Panel Discussion & Q/A
All faculty

OVERVIEW:
Recently, many seminal publications and key society guidelines have been released pertaining to the management of invasive fungal infections (IFD). Against this backdrop, deficiencies in knowledge and performance have been documented in the care of patients at risk for or diagnosed with IFD, some with very serious consequences. There is a clear need for education about the newer data for diagnostics and therapeutic options as well as emerging standards of care. This activity, Invasive Mycoses: Emerging Paradigms and Practical Applications, features a review of emerging data стрategies on the optimal diagnosis and pharmacologic management of IFD as well as application of these principles in interdisciplinary case examples. With an esteemed MSG-ERC, interdisciplinary faculty and the use of the Array™ Tablet iPad technology to engage the learners, this activity promises to be an informative and engaging learning experience that will help the individual clinician identify educational tools and strategies to improve outcomes for patients with IFD.

To view more complete accreditation information and to register, please go to www.funguscme.org/ASM2016.

A Case-Based Approach to Serious Gram-Negative Bacterial Infections: What’s Now? What’s New? What’s Next?

This activity is supported by an educational grant from Merck & Co., Inc.
7:00 p.m. – 8:45 p.m.
Westin Boston Waterfront, Grand Ballroom A

MODERATOR:
Thomas M. File, MD, MSC, MACP, FIDSA, FCCP; Chair, Infectious Disease Division, Summa Health System, Akron, OH; Professor, Internal Medicine; Master Teacher; Chair, Infectious Disease Section, Northeast Ohio Medical University (NEOMED), Rootstown, OH

PRESENTATIONS:
A Closer Look at the Burden and Epidemiology of Gram-Negative Bacterial Infections
Thomas M. File, MD, MSC, MACP, FIDSA, FCCP; Chair, Infectious Disease Division, Summa Health System, Akron, OH; Professor, Internal Medicine; Master Teacher; Chair, Infectious Disease Section, Northeast Ohio Medical University (NEOMED), Rootstown, OH

Making the Right Choice: Identifying and Treating Serious Gram-Negative Infections
George Sakoulas, MD; Infectious Disease Consultant, Sharp Healthcare, San Diego, CA; Associate Professor, Dept of Pediatrics, University of California San Diego School of Medicine, La Jolla, CA

Optimizing Therapy for Infections Caused by Gram-Negative Bacteria
David P. Nicolau, PharmD, FCCP, FIDSA; Director, Ctr. for Anti-Infective Research and Development, Hartford Hosp., Hartford, Connecticut

OVERVIEW:
There are several important considerations when designing a treatment plan for serious bacterial infections, particularly those caused by multidrug-resistant (MDR) Gram-negative pathogens. With a variety of agents available, there is a pressing need for the implementation of contemporary, evidence-based...
strategies to combat serious infections caused by Gram-negative bacteria. Selecting and initiating an antibiotic regimen based on pathogen-, drug-, and patient-related factors is essential, and it is critical that clinicians are knowledgeable and up to date on the appropriate clinical use of current and emerging treatment options to ultimately provide benefit for both the individual patient and community. To address these needs, this activity will examine the burden and epidemiology of serious Gram-negative bacterial infections with the expert faculty panel providing practical guidance on how to optimize treatment for these infections in the context of real-world patient scenarios.

Sepsis Diagnosis: It's Time for a New Gold Standard
Supported by

T2 Biosystems
7:00 p.m. – 9:00 p.m.
Westin Boston Waterfront, Grand Ballroom B

MODERATOR:
Louis B. Rice, MD

PRESENTERS:
Michael Pfaller, MD
Sandy J. Estrada, Pharm.D., BCPS
Melvin P. Weinstein, MD

OVERVIEW:
Advances in molecular diagnostics have long promised to deliver superior performance to blood culture. These techniques have fallen short because they rely on positive blood culture as their testing specimen; thus, they can only be as sensitive as blood culture itself, which misses between 30-50% of disease.

Recently, the T2Candida Panel has proven significantly superior sensitivity to blood culture and much faster time to result, while working directly from patient blood samples. Culture, considered a gold standard for decades, is no longer the most sensitive technology available, which suggests it may no longer be the only standard for patient care and clinical trials in sepsis.

Please join this discussion of leading experts as they share real clinical experiences with the T2Candida Panel to improve patient outcomes and cost management. In addition, the panelists will review best practices for diagnosing and managing patients at risk for sepsis, as well as review the pipeline of products that promise to deliver the benefits of rapid and highly sensitive direct-from blood diagnostics.

Transforming Microbiology. Optimizing Outcomes
Supported by

BD
6:45 p.m. – 8:00 p.m.
Seaport Boston Hotel & World Trade Center, Cityview Ballroom

PRESENTATIONS:
Advances in Imaging
Dr. Antony Croxatto, PhD; Assistant Lab Manager, Laboratory Department, Institute of Microbiology, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland

The Role of BD Kiestra™ Lab Automation in Transforming the Clinical Microbiology Laboratory
Dr. Richard (Tom) Thomson, Jr., Ph.D., D(ABMM), FAAM; Division Head of Clinical Pathology and Medical Microbiologist & Director of Microbiology Laboratories NorthShore University HealthSystem, Evanston Hospital, Evanston, IL

OVERVIEW:
This symposium will describe the impact of automation in the microbiology laboratory, as well as introduce next generation imaging technology.

Learn about advances in imaging that are allowing for better visualization of microorganisms and its impact on outcomes.

Industrial Metagenomics - Large Scale Analysis for Food Safety
Supported by UC Davis, IBM, Mars, Inc. and Bio-Rad
6:45 p.m. – 10:00 p.m.
BCEC, Grand Ballroom West

MODERATORS:
Christopher Elkins, PhD; Supervisory Microbiologist, FDA
Kristen Beck, PhD; Researcher, Sequencing the Food Supply Chain, IBM Research, Almaden Research Center
David Chambliss, PhD; Principal Researcher, IBM Research, Almaden Research Center

PRESENTATIONS:
Mapping microbiome data to predict food safety risks
Jose Clemente, PhD; Department of Genomics & Multiscale Biology, Icahn School of Medicine at Mt. Sinai, New York, NY

A new method for rapid, culture-free whole genome assembly from mixed microbial communities
Ivan Liachko, PhD; Department of Genome Sciences, University of Washington, Seattle, WA

Metagenomics in the beef processing chain
Noelle Noyes, PhD; Department of Clinical Sciences, Colorado State University, Fort Collins, CO
Using metaRNAseq in the food chain for microbial hazards
Bart Weimer, PhD; School of Veterinary Medicine, Department of Population Health and Reproduction, University of California - Davis, Davis, CA

Mapping the Metagenome with an Ever Smaller Ruler
James Kaufman, PhD; Manager, Public Health Research, IBM Research, Almaden Research Center, San Jose, CA

OVERVIEW:
The program will highlight the microbial ecology of foods as they relate to food safety and microbial diversity in the microbiome. Speakers will discuss technical aspects of defining the microbiome using metRNAseq to determine microbe ID, function, and forensic assessment of hazards in the food supply.

Predicting Infections in Transplant Patients: Cellular Immune Assays for Tuberculosis and CMV
Supported by Oxford Immunotec
6:45 p.m. – 8:30 p.m.
Aloft Boston Seaport, Mann Ballroom

PRESENTATIONS:
Screening HCT Patients for TB and CMV
Roy F. Chemaly, MD, MPH, FIDSA, FACP; Professor of Med., Director, Infection Control Section, Director of Clinical Virology Research Program, Dept. of Infectious Diseases, Infection Control & Employee Health, Univ. of Texas MD Anderson Cancer Ctr., Houston, TX

Screening Solid Organ Transplant Patients for TB and CMV
Raymund R. Razonable, MD; Professor of Medicine, College of Medicine, Director of Transplant Infectious Disease Program, Associate Chair for Faculty Development, Program Director of the Transplant ID Fellowship Program, Associate Program Director of the Infectious Disease Fellowship Program, Division of Infectious Diseases, Mayo Clinic, Rochester, Minnesota

OVERVIEW:
Upon completion of this program, participants should be able to:

1. Convey the importance of TB screening prior to transplant.
2. Describe the advantages and disadvantages of different TB testing methods in various clinical settings and among patients at high risk for contracting TB.
3. Discuss the impact of TB testing results on clinical management before and after transplant.
4. Analyze new data on the role that interferon-gamma release assays (IGRAs) may play in the prediction of CMV infection.
5. Assess the clinical value of IGRAs on preemptive or prophylaxis strategies for CMV.

Modern MRSA Screening: Where We’ve Been, Where We Are, What’s Next
Supported by Roche

6:45 p.m. – 8:30 p.m.
Westin Boston Waterfront, Harbor Ballroom

MODERATOR:
Chris Newhouse; Marketing Manager, Roche Diagnostic Corp, Indianapolis, IN

PRESENTATIONS:
Modern MRSA Screening: Where We’ve Been, Where We Are, What’s Next
Karissa Culbreath, PhD, D(ABMM); Scientific Director, Infectious Disease, Research and Development at TriCore Reference Laboratories

OVERVIEW:
Dr. Culbreath will speak on the past of MRSA screening, the advancements that have been made to get us to where we are now, and what’s coming in the future.

Multidrug-resistant Gram-negative Infections: Emerging or Established Threat?
Supported by Tetraphase Pharmaceuticals

6:45 p.m. Registration
7:00 – 9:00 p.m. Symposia
BCEC, Grand Ballroom East

PRESENTATIONS:
Scope, Prevalence and Implications of Gram-negative Pathogens
Andrew Shorr, MD, MPH; Associate Chief, Pulmonary and Critical Care Med., Washington Hospital Ctr.; Associate Professor of Med., Georgetown Univ. Hosp.

Clinical Implications of the Mechanisms of Resistance in Gram-Negative Pathogens
George H. Karam, MD; Paula Garvey Manship Professor of Medicine, L.S.U. School of Medicine, New Orleans, LA

Treating Infections Caused by Resistant Gram-negative Pathogens
Jason M. Pogue, PharmD; Infectious Diseases Clinical Pharmacist, Sinai-Grace Hospital, Detroit Medical Center, Detroit, MI; Assistant Clinical Professor of Medicine, Wayne State School of Medicine
OVERVIEW:
Bacterial resistance to available antibiotics is of great concern and is an increasing challenge for physicians caring for hospitalized patients with serious infections.

Infections caused by resistant gram-negative bacteria are becoming increasingly prevalent and now constitute a serious threat to public health worldwide because they are difficult to treat and are associated with high morbidity and mortality rates. Further, treating infections of either pan-resistant or nearly pan-resistant Gram-negative microorganisms is an increasingly common challenge in many hospitals.

With increasingly limited treatment options and resistance on the rise, it is more important than ever to optimize the use of antibiotics in order to help improve patient outcomes, but also to understand the value of and preserve the life-saving potential of these agents.

This continuing education activity will address concepts that clinicians need to consider in order to optimize antibiotic treatment and improve outcomes in patients experiencing infections from multidrug-resistant Gram-negative pathogens.

SUNDAY, JUNE 19

More Than a Gut Reaction: Effective Strategies to Treat and Prevent Recurrent C Difficile Infection
Supported by an educational grant from Merck & Co., Inc. Approved for CME credit by

RUSH
7:00 p.m. – 9:00 p.m.
Westin Boston Waterfront, Grand Ballroom AB

MODERATOR:
Ciarán P. Kelly, MD; Professor of Medicine, Harvard Med. School, Director, Gastroenterology Fellowship Training, Med. Director, Celiac Center, Beth Israel Deaconess Med. Center

PRESENTATIONS:
Epidemiology and Prevention of CDIs
John Segreti, MD; Professor of Med., Division of Infectious Diseases, Rush Med. College, Chicago, IL

Diagnosis and Management of Initial CDIs
Carlene A. Muto, MD, MS; Med. Director of Infection Prevention and Hospital Epidemiology University of Pittsburgh Medical Center (UPMC), Presbyterian Center for Quality, Safety and Innovation, UPMC Health System, Associate Prof. of Med. and Epidemiology Division of Infectious Diseases, University of Pittsburgh School of Medicine

Prevention and Management of Recurrent CDIs
Dale N. Gerding, MD; Professor of Medicine (Infectious Diseases), Loyola University Chicago Stritch School of Medicine, Research Physician, Edward Hines Jr VA Hospital, Hines, IL

OVERVIEW:
Clostridium difficile causes approximately 500,000 infections in the United States per year, with 83,000 of these patients experiencing at least one recurrence, and 29,000 patients dying within 30 days of initial diagnosis. Effective treatment varies for patients with initial infection, severe, complicated infection, and recurrent infection, and identification of those at highest risk of recurrence is critical in order to prevent devastating complications. Attendees of this live symposium will have the opportunity to evaluate all facets of patients with initial and recurrent C difficile infections (CDIs), including assessment of existing and emerging therapies, as they develop customized treatment plans via interactive case scenarios.

Industry & Science Showcases

FRIDAY, JUNE 17

Impact of the cobas® Liat flu Assay on Clinical Decision Making in the Emergency Department Setting (CLADE Study Group)
Supported by Roche
11:45 a.m. – 12:30 p.m.
Industry & Science Showcase A – Booth 144

SPEAKER:
Glen Hansen, PhD; Director, Clinical Microbiology & Molecular Diagnostics, Hennepin County Medical Center; Assistant Professor, Pathology & Laboratory Medicine; Infectious Diseases, University of Minnesota School of Medicine

OVERVIEW:
Dr. Hansen will discuss the findings of the CLADE study looking at flu testing in the Emergency Department and the impact on clinical decision making and healthcare impact.
Beyond the MIC: Future Applications of Morphokinetic Cellular Analysis (MCA)

Supported by

ACCELERATE DIAGNOSTICS

11:45 a.m. – 12:30 p.m.
Industry & Science Showcase B – Booth 1844

OVERVIEW:
Morphokinetic Cellular Analysis (MCA) is a technique that leverages digital microscopy, signal processing, and bioinformatics technologies to observe and analyze multiple morphological and growth characteristics of individual cells and microcolonies under a variety of conditions over time. Today these phenotypic characteristics, such as changes in mass, division rate, and external form and pattern are analyzed to produce a minimum inhibitory concentration, or MIC, a key result used to determine antimicrobial susceptibility of clinical samples and direct appropriate therapy.

Beyond the MIC result, morphokinetic cellular analysis has the potential to deliver additional clinically actionable parameters including pharmacodynamic information and minimum bactericidal concentrations.

LifeScale: (Truly) Rapid AST’s from Positive Blood Culture, and More

Supported by

AFFINITY BIOSENSORS

12:45 p.m. – 1:30 p.m.
Industry & Science Showcase B – Booth 1844

SPEAKER:
Ken Babcock; CEO, Affinity Biosensors

OVERVIEW:
LifeScale provides phenotypical antibiotic susceptibility testing with unsurpassed speed, painless workflow integration, and affordable cost. Clinical availability for positive blood culture is planned for 2017. With AST results 3 hours from bottle ring, LifeScale will help your lab or hospital improve outcomes, reduce payer cost, and boost stewardship efforts. Please join us to learn more about LifeScale’s capabilities, which include:

• Per-test costs comparable to existing AST’s.
• Simple sample preparation with low touch time.
• Microbroth dilutions in standard well-plate format: no labeling or immobilization.
• Painless integration into your existing workflow.

cUTI and cIAI Caused by Current Common Gram-negative Pathogens

Supported by

MERCK

12:45 p.m. – 1:30 p.m.
Industry & Science Showcase A – Booth 144

LEARNING OBJECTIVES:
• Review the prevalence of common Gram-negative bacteria involved in cUTI and cIAI
• Review treatment considerations related to cUTI and cIAI
• Review a clinical patient case and discuss a potential empiric antibiotic treatment option

Three Real-Time Multiplex PCR Assays for the Detection of 21 Clinically Important ß-Lactamase Genes using Rapid PCR Amplification Technology

Supported by

Streck

1:45 p.m. – 2:30 p.m.
Industry & Science Showcase A – Booth 144

SPEAKER:
Nancy D. Hanson, PhD; Professor and Director of the Center for Research, Anti-Infectives and Biotechnology, Department of Medical Microbiology and Immunology, Creighton University, Omaha

OVERVIEW:
Molecular assays are important tools for the implementation of antibiotic stewardship programs and selection of appropriate empiric therapy. Monitoring multi-drug resistant (MDR) Gram-negative infections is difficult and identification of the most clinically relevant ß-lactamases in a MDR organism is time consuming. However, rapid, accurate detection using molecular assays can aid in the selection of the most appropriate empiric therapy resulting in good antibiotic stewardship. This presentation describes real-time multiplex PCR assays that detect important ß-lactamase gene families. The Streck ARM-D® Kits, ß-Lactamase, ampC and OXA are compatible with and have been evaluated using fast PCR protocols in several instruments including a 20-minute assay
run with the Streck Real-Time PCR System. The kits are easy to use molecular tools for the detection of multiple ß-lactamase gene families of medical importance. Data presented will demonstrate the high degree of specificity and sensitivity for each assay.

Laser Light Scattering For The Detection and Characterization Of Bacterial Infections
Supported by

**BacterioScan**

1:45 p.m. – 2:30 p.m.
Industry & Science Showcase B – Booth 1844

**SPEAKERS:**
Andrew Tomaras, PhD; Vice President Microbiology, BacterioScan Inc.
Mary L. Delaney; Research Associate, Anaerobe Research Laboratory, Massachusetts Host-Microbiome Center, Brigham and Women’s Hospital, Boston, MA
Andrea M. Du Bois; Research Associate, Department of Pathology, Anaerobe Research Laboratory, Massachusetts Host-Microbiome Center, Brigham and Women’s Hospital, Boston, MA

**OVERVIEW:**
The implementation of rapid diagnostic technologies allows the clinical microbiology laboratory to provide expedited test results which, in turn, enables improved patient care. The BacterioScan laser light-scattering platform uses sensitive optical measurements to robustly identify bacterial growth directly from patient specimens or from cultured isolates. Use of this platform to aid in the rapid diagnosis of urinary tract infections (UTIs) results in dramatic improvements in time-to-result and the effective elimination of >50% of the UTI-associated specimen workflow. Additionally, the BacterioScan instrument improves upon current antimicrobial susceptibility testing (AST) by providing S/I/R interpretative scores or actual MIC values in 3-6 hours. Rapid Phenotypic Microbiology provides clinicians with reliable results faster, ensuring patients receive the correct antibiotic therapies at the appropriate time, improving clinical outcomes and enabling antibiotic stewardship.

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**SATURDAY, JUNE 18**

**Aptima: The Latest Generation HIV-1 Viral Load Assay**
Supported by

**HOLOGIC**

12:45 p.m. – 1:30 p.m.
Industry & Science Showcase A – Booth 144

**SPEAKER:**
Mark Manak, PhD; Chief Scientist, Department of Diagnostics and Monitoring, US Military HIV Research Program (MHRP), HJF, Walter Reed Army Institute of Research

**OVERVIEW:**
Transcription mediated amplification (TMA) leverage proprietary target capture on magnetic particles to offer unparalleled sensitivity and specificity in Hologic’s Aptima assays. TMA is unique to Aptima’s molecular assays such as CT/GC, HPV, and Trichomoniasis. Aptima leverages proprietary transcription mediated amplification in its latest generation dual target, HIV-1 viral load assay and combines it with superior automation on the Panther system to revolutionize virology. Come see how Aptima on the Panther system is the new standard in viral load testing.

**Performance of Morphokinetic Cellular Analysis (MCA) for Fast Phenotypic Antimicrobial Susceptibility Testing of Positive Blood Cultures**
Supported by

**ACCELERATE DIAGNOSTICS**

12:45 p.m. – 1:30 p.m.
Industry & Science Showcase B – Booth 1844

**OVERVIEW:**
Morphokinetic Cellular Analysis (MCA) is an innovative method for phenotypic antimicrobial susceptibility testing that yields diagnostic results substantially faster than traditional methods. Fully automated, this information-rich method decreases the time to clinically actionable results and enables clinicians to optimize antimicrobial therapy earlier for patient suffering from serious infections.

This session will include a review of clinical performance data for the Accelerate Pheno™ system and Accelerate PhenoTest™ BC kit, using MCA technology.
The Future of NGS in Clinical Microbiology
Supported by illumina®
1:45 p.m. – 2:30 p.m.
Industry & Science Showcase A – Booth 144

SPEAKERS:
Joanne Bartkus, PHD, d(abmm); Public Health Laboratory Director
Jack Gilbert, PhD; Professor at University of Chicago

OVERVIEW:
Learn about the transformation that next-generation sequencing has done in Microbial detection, identification and characterization in clinical and public health laboratories. The potential to revolutionize human health through the power of metagenomics analysis is here.

From Next Generation Sequencing to qPCR—
Genetic Analysis Solutions for Pathogen Detection
Supported by ThermoFisher SCIENTIFIC
1:45 p.m. – 2:30 p.m.
Industry & Science Showcase B – Booth 1844

PRESENTATIONS:
A Multiple Analyte Panel of Real-Time PCR-Based Assays for Indexing Bacterial Vaginosis
James Rains, PhD; Chief Scientific Officer, QuantiGen

Querying the Resistome: Comparison of AmpliSeq and Whole Genome Sequencing
Kenneth G. Frey, PhD Scientist; Genomics and Bioinformatics Dept, NMRC-Frederick, Henry M. Jackson Foundation

OVERVIEW:
This workshop will discuss the latest innovations in Ion Torrent and Applied Biosystems genetic analysis solutions including advances in simple and rapid NGS library preparation, template preparation, and sequencing methods and a novel real-time PCR assay for BV using Thermo Fisher’s OpenArray™ Real-Time PCR System which correlates the pathogen distribution to the standards in the field.

SUNDAY, JUNE 19

Microbial Genomics Pro Suite - Applied Microbial Genomics and Metagenomics in Agri/Food, Pharma, and Public Health
Supported by QIAGEN
12:45 p.m. – 1:30 p.m.
Industry & Science Showcase A – Booth 144

SPEAKER:
Arne C. Materna; Director of Microbial Genomics, QIAGEN Bioinformatics

OVERVIEW:
The bacteria in microbiomes are tightly associated with their host's health. They regulate our immune system and metabolism, they offer protection against pathogenic microbes, or produce essential vitamins.

Understanding how to shift microbiomes from dysbiosis (unhealthy state) to a healthy state is key to applying metagenomics in therapeutics or “function foods”.

While microbiome analysis is becoming routine in microbiology research, classical whole genome sequencing of microbial isolates is making a comeback. Typing of pathogens or biotechnologically relevant strains at the whole genome level offers more accurate information on taxonomy and gene function, such as antimicrobial resistance. Whole genome based phylogenetic analysis of pathogen isolates in the context of epidemiological metadata results in high resolution clustering useful for outbreak surveillance and source tracking.

The Microbial Genomics Pro Suite, offered by QIAGEN bioinformatics, delivers tools for microbiome analysis and whole genome isolate analysis integrated into a single bioinformatics platform that is user friendly, scalable, and enterprise-ready.
Introducing the CellASIC® ONIX2 Microfluidic System: Sophisticated Cell Culture of Yeast and Bacteria for Advanced Live Cell Imaging

Supported by

MilliporeSigma

12:45 p.m. – 1:30 p.m.
Industry & Science Showcase B – Booth 1844

SPEAKER:
Amedeo Cappione, PhD; Senior Scientist, MilliporeSigma

OVERVIEW:
Technological advances in microscopy have brought imaging capabilities to impressive new heights. With these improvements in microscopy, there is a need to pair those advancements with better methods for live cell culture that allow researchers to achieve the highest quality data for live cell imaging. The new CellASIC® ONIX2 Microfluidic System brings a new level of precision and cell culture control to live cell imaging. We will demonstrate an effective way to culture yeast and bacteria in a single focal plane for advanced single cell studies. By utilizing microfluidics, the CellASIC® ONIX2 allows researchers to perform in-depth studies of cellular response to environmental changes. The control system is connected to the microfluidic plate via a low-profile manifold, which enables setup on any inverted microscope. Whether your experiment demands dynamic changes in temperature, gas, media or stimulants, the CellASIC® ONIX2 microfluidic system provides an easy-to-use, intuitive solution.

Overview of Clostridium difficile–Associated Diarrhea (CDAD)

Merck is pleased to sponsor this program to provide information consistent with FDA guidelines. This program is not an accredited CME program and is not designed to meet any training and/or educational requirements. This medical education program is for US health care professionals and health care business professionals only. The speaker for this program is speaking on behalf of Merck.

1:45 p.m. – 2:30 p.m.
Industry & Science Showcase A – Booth 144

SPEAKER:
Dr. Michael Gelfand, MD; Professor of Medicine at University of Tennessee Health Science Center, Chief of the Division of Infectious Diseases at Methodist University Hospital

OVERVIEW:
The objectives for this presentation are to:

- Describe the clinical consequences associated with initial and recurrent Clostridium difficile-associated diarrhea.
- Outline the pathogenesis of the drivers and mechanisms of Clostridium difficile–associated diarrhea.
- Discuss the risk factors associated with Clostridium difficile–associated diarrhea.

Clinical Implications in the Treatment of Adult Patients With ABSSSI

Merck is pleased to sponsor this program to provide information consistent with FDA guidelines. This program is not an accredited CME program and is not designed to meet any training and/or educational requirements. This medical education program is for US health care professionals and health care business professionals only. The speaker for this program is speaking on behalf of Merck.

1:45 p.m. – 2:30 p.m.
Industry & Science Showcase B – Booth 1844

OVERVIEW:
The objectives for this presentation are to:

- Evaluate the significance of key Gram-positive pathogens, including MRSA, involved in ABSSSI.
- Review therapeutic strategies for treating ABSSSI in the inpatient and community setting.
- Review a clinical patient case with ABSSSI and a potential treatment option.
Indications and Important Safety Information

Indications
ZERBAXA is indicated in adult patients for the treatment of complicated urinary tract infections (cUTI), including pyelonephritis, caused by the following Gram-negative microorganisms: Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, and Pseudomonas aeruginosa.

ZERBAXA used in combination with metronidazole is indicated in adult patients for the treatment of complicated intra-abdominal infections (cIAI) caused by the following Gram-negative and Gram-positive microorganisms: Enterobacter cloacae, Escherichia coli, Klebsiella oxytoca, Klebsiella pneumoniae, Proteus mirabilis, Pseudomonas aeruginosa, Bacteroides fragilis, Streptococcus anginosus, Streptococcus constellatus, and Streptococcus salivarius.

Usage
To reduce the development of drug-resistant bacteria and maintain the effectiveness of ZERBAXA and other antibacterial drugs, ZERBAXA should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

Important Safety Information

• Patients with renal impairment: Decreased efficacy of ZERBAXA has been observed in patients with baseline creatinine clearance (CrCl) of 30 to ≤50 mL/min. In a clinical trial, patients with cIAIs with CrCl ≥50 mL/min had a clinical cure rate of 85.2% when treated with ZERBAXA plus metronidazole vs 87.9% when treated with meropenem. In the same trial, patients with CrCl 30 to ≤50 mL/min had a clinical cure rate of 47.8% when treated with ZERBAXA plus metronidazole vs 69.2% when treated with meropenem. A similar trend was also seen in the cUTI trial. Monitor CrCl at least daily in patients with changing renal function and adjust the dose of ZERBAXA accordingly.

• Hypersensitivity: ZERBAXA is contraindicated in patients with known serious hypersensitivity to ceftolozane/tazobactam, piperacillin/tazobactam, or other members of the beta-lactam class. Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving beta-lactam antibacterials. Before initiating therapy with ZERBAXA, make careful inquiry about previous hypersensitivity reactions to cephalosporins, penicillins, or other beta-lactams. If an anaphylactic reaction to ZERBAXA occurs, discontinue use and institute appropriate therapy.

• Clostridium difficile-associated diarrhea (CDAD), ranging from mild diarrhea to fatal colitis, has been reported with nearly all systemic antibacterial agents, including ZERBAXA. Careful medical history is necessary because CDAD has been reported to occur more than 2 months after the administration of antibacterial agents. If CDAD is confirmed, antibacterial use not directed against C. difficile should be discontinued, if possible.

• Development of drug-resistant bacteria: Prescribing ZERBAXA in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

• Adverse Reactions: The most common adverse reactions occurring in ≥5% of patients were headache (5.8%) in the cUTI trial, and nausea (7.9%), diarrhea (6.2%), and pyrexia (5.6%) in the cIAI trial.

Please see Brief Summary of Full Prescribing Information on the following pages.
INDICATIONS AND USAGE

ZERBAXA™ (ceftolozane and tazobactam) for injection is indicated for the treatment of patients 18 years or older with the following infections caused by designated susceptible microorganisms.

Complicated Intra-abdominal Infections ZERBAXA used in combination with metronidazole is indicated for the treatment of complicated intra-abdominal infections (cIAI) caused by the following Gram-negative and Gram-positive microorganisms: Enterobacter cloaceae, Escherichia coli, Klebsiella oxytoca, Klebsiella pneumoniae, Proteus mirabilis, Pseudomonas aeruginosa, Bacteroides fragilis, Streptococcus anginosus, Streptococcus constellatus, and Streptococcus salivarius.

Complicated Urinary Tract Infections, including Pyelonephritis ZERBAXA is indicated for the treatment of complicated urinary tract infections (cUTI), including pyelonephritis, caused by the following Gram-negative microorganisms: Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, and Pseudomonas aeruginosa.

Usage To reduce the development of drug-resistant bacteria and maintain the effectiveness of ZERBAXA and other antibacterial drugs, ZERBAXA should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

CONTRAINDICATIONS

ZERBAXA is contraindicated in patients with known serious hypersensitivity to the components of ZERBAXA (ceftolozane and tazobactam), piperacillin/tazobactam, or other members of the beta-lactam class.

WARNINGS AND PRECAUTIONS

Decreased Efficacy in Patients with Baseline Creatinine Clearance of 30 to ≤50 mL/min

In a subgroup analysis of a Phase 3 cIAI trial, clinical cure rates were lower in patients with baseline creatinine clearance (CrCl) of 30 to ≤50 mL/min compared to those with CrCl ≥50 mL/min (see table below). The reduction in clinical cure rates was more marked in the ZERBAXA plus metronidazole arm compared to the meropenem arm. A similar trend was also seen in the cUTI trial. Monitor CrCl at least daily in patients with changing renal function and adjust the dosage of ZERBAXA accordingly.

Clinical Cure Rates in a Phase 3 Trial of cIAI by Baseline Renal Function (MITT Population)

<table>
<thead>
<tr>
<th>Baseline Renal Function</th>
<th>ZERBAXA plus metronidazole n/N (%)</th>
<th>Meropenem n/N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal/mild impairment (CrCl ≥50 mL/min)</td>
<td>312/366 (85.2)</td>
<td>355/404 (87.9)</td>
</tr>
<tr>
<td>Moderate impairment (CrCl 30 to ≤50 mL/min)</td>
<td>11/23 (47.8)</td>
<td>9/13 (69.2)</td>
</tr>
</tbody>
</table>

Hypersensitivity Reactions Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving beta-lactam antibacterial drugs. Before initiating therapy with ZERBAXA, make careful inquiry about previous hypersensitivity reactions to other cephalosporins, penicillins, or other beta-lactams. If this product is to be given to a patient with a cephalosporin, penicillin, or other beta-lactam allergy, exercise caution because cross sensitivity has been established. If an anaphylactic reaction to ZERBAXA occurs, discontinue the drug and institute appropriate therapy.

Clostridium difficile-associated Diarrhea Clostridium difficile-associated diarrhea (CDAD) has been reported for nearly all systemic antibacterial agents, including ZERBAXA, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of C. difficile.

C. difficile produces toxins A and B which contribute to the development of CDAD. CDAD must be considered in all patients who present with diarrhea following antibacterial use. Careful medical history is necessary because CDAD has been reported to occur more than 2 months after the administration of antibacterial agents.

If CDAD is confirmed, discontinue antibacterials not directed against C. difficile, if possible. Manage fluid and electrolyte levels as appropriate, supplement protein intake, monitor antibacterial treatment of C. difficile, and institute surgical evaluation as clinically indicated.

Development of Drug-Resistant Bacteria Prescribing ZERBAXA in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and risks the development of drug-resistant bacteria.

ADVERSE REACTIONS

The following serious reactions are described in greater detail in the Warnings and Precautions section:

• Hypersensitivity reactions
• Clostridium difficile-associated diarrhea

Clinical Trial Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and also may not reflect rates observed in practice.

ZERBAXA was evaluated in Phase 3 comparator-controlled clinical trials of cIAI and cUTI, which included a total of 1015 patients treated with ZERBAXA and 1032 patients treated with comparator (levofloxacin 750 mg daily in cUTI or meropenem 1 g every 8 hours in cIAI) for up to 14 days. The mean age of treated patients was 48 to 50 years (range 18 to 92 years), across treatment arms and indications. In both indications, about 25% of the subjects were 65 years of age or older. Most patients (75%) enrolled in the cUTI trial were female, and most patients (58%) enrolled in the cIAI trial were male. Most patients (>70%) in both trials were enrolled in Eastern Europe and were White.

The most common adverse reactions (5% or greater in either indication) occurring in patients receiving ZERBAXA were nausea, diarrhea, headache, and pyrexia. The table below lists adverse reactions occurring in 1% or greater of patients receiving ZERBAXA in Phase 3 clinical trials.

<table>
<thead>
<tr>
<th>Preferred Term</th>
<th>Complicated Intra-abdominal Infections</th>
<th>Complicated Urinary Tract Infections, Including Pyelonephritis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ZERBAXA (N=482)</td>
<td>Meropenem (N=497)</td>
</tr>
<tr>
<td>Nausea</td>
<td>38 (7.9)</td>
<td>29 (5.8)</td>
</tr>
<tr>
<td>Headache</td>
<td>12 (2.5)</td>
<td>9 (1.8)</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>30 (6.2)</td>
<td>25 (5)</td>
</tr>
<tr>
<td>Pyrexia</td>
<td>27 (5.6)</td>
<td>20 (4)</td>
</tr>
<tr>
<td>Constipation</td>
<td>9 (1.9)</td>
<td>6 (1.2)</td>
</tr>
<tr>
<td>Insomnia</td>
<td>17 (3.5)</td>
<td>11 (2.2)</td>
</tr>
<tr>
<td>Vomiting</td>
<td>16 (3.3)</td>
<td>20 (4)</td>
</tr>
<tr>
<td>Hypokalemia</td>
<td>16 (3.3)</td>
<td>10 (2)</td>
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<tr>
<td>ALT increased</td>
<td>7 (1.5)</td>
<td>5 (1)</td>
</tr>
<tr>
<td>AST increased</td>
<td>5 (1)</td>
<td>3 (0.6)</td>
</tr>
<tr>
<td>Anemia</td>
<td>7 (1.5)</td>
<td>5 (1)</td>
</tr>
<tr>
<td>Thrombocytosis</td>
<td>9 (1.9)</td>
<td>5 (1)</td>
</tr>
<tr>
<td>Abdominal pain</td>
<td>6 (1.2)</td>
<td>2 (0.4)</td>
</tr>
<tr>
<td>Anxiety</td>
<td>9 (1.9)</td>
<td>7 (1.4)</td>
</tr>
<tr>
<td>Dizziness</td>
<td>4 (0.8)</td>
<td>5 (1)</td>
</tr>
<tr>
<td>Hypotension</td>
<td>8 (1.7)</td>
<td>4 (0.8)</td>
</tr>
<tr>
<td>Atrial fibrillation</td>
<td>6 (1.2)</td>
<td>3 (0.6)</td>
</tr>
<tr>
<td>Rash</td>
<td>8 (1.7)</td>
<td>7 (1.4)</td>
</tr>
</tbody>
</table>

*The ZERBAXA for injection dose was 1.5 g intravenously every 8 hours, adjusted to match renal function where appropriate. In the cUTI trials, ZERBAXA was given in conjunction with metronidazole.
Treatment discontinuation due to adverse events occurred in 2.0% (20/1015) of patients receiving ZERBAXA and 1.9% (20/1032) of patients receiving comparator drugs. Renal impairment (including the terms renal impairment, renal failure, and renal failure acute) led to discontinuation of treatment in 5/1015 (0.5%) subjects receiving ZERBAXA and none in the comparator arms.

Increased Mortality
In the cIAI trials (Phase 2 and 3), death occurred in 2.5% (14/564) of patients receiving ZERBAXA and in 1.5% (8/536) of patients receiving meropenem. The causes of death varied and included worsening and/or complications of infection, surgery and underlying conditions.

Less Common Adverse Reactions
The following selected adverse reactions were reported in ZERBAXA-treated subjects at a rate of less than 1%:

Cardiac disorders: tachycardia, angina pectoris
Gastrointestinal disorders: ileus, gastritis, abdominal distension, dyspepsia, flatulence, ileus paralytic
General disorders and administration site conditions: infusion site reactions
Infections and infestations: candidiasis, oropharyngeal, fungal urinary tract infection
Investigations: increased serum gamma-glutamyl transpeptidase (GGT), increased serum alkaline phosphatase, positive Coombs test
Metabolism and nutrition disorders: hyperglycemia, hypomagnesemia, hypophosphatemia
Nervous system disorders: ischemic stroke
Renal and urinary system: renal impairment, renal failure
Respiratory, thoracic and mediastinal disorders: dyspnea
Skin and subcutaneous tissue disorders: urticaria
Vascular disorders: venous thrombosis

DRUG INTERACTIONS
No significant drug-drug interactions are anticipated between ZERBAXA and substrates, inhibitors, and inducers of cytochrome P450 enzymes (CYPs).

USE IN SPECIFIC POPULATIONS
Pregnancy - Pregnancy Category B. There are no adequate and well-controlled trials in pregnant women with either ceftolozane or tazobactam. Because animal reproduction studies are not always predictive of human response, ZERBAXA should be used during pregnancy only if the potential benefit outweighs the possible risk. Embryo-fetal development studies performed with intravenous ceftolozane in mice and rats with doses up to 2000 and 1000 mg/kg/day, respectively, revealed no evidence of harm to the fetus. The mean plasma exposure (AUC) values associated with these doses are approximately 7 (mice) and 4 (rats) times the mean daily human ceftolozane exposure in healthy adults at the clinical dose of 1 gram thrice-daily. It is not known if ceftolozane crosses the placenta in animals. In a pre-postnatal study in rats, intravenous ceftolozane administered during pregnancy and lactation (Gestation Day 6 through Lactation Day 20) was associated with a decrease in auditory startle response in postnatal Day 60 male pups at maternal doses of greater than or equal to 300 mg/kg/day. The plasma exposure (AUC) associated with the NOAEL dose of 100 mg/kg/day in rats is approximately 0.4 fold of the mean daily human ceftolozane exposure in healthy adults at the clinical dose of 1 gram thrice-daily. In an embryo-fetal study in rats, tazobactam administered intravenously at doses up to 3000 mg/kg/day (approximately 19 times the recommended human dose based on body surface area comparison) produced maternal toxicity (decreased food consumption and body weight gain) but was not associated with fetal toxicity. In rats, tazobactam was shown to cross the placenta. Concentrations in the fetus were less than or equal to 10% of those found in maternal plasma. In a pre-postnatal study in rats, tazobactam administered intraperitoneally twice daily at the end of gestation and during lactation (Gestation Day 17 through Lactation Day 21) produced decreased maternal food consumption and body weight gain at the end of gestation and significantly more stillbirths with a tazobactam dose of 1280 mg/kg/day (approximately 8 times the recommended human dose based on body surface area comparison). No effects on the development, function, learning or fertility of F1 pups were noted, but postnatal body weights for F1 pups delivered to dams receiving 320 and 1280 mg/kg/day tazobactam were significantly reduced 21 days after delivery. F2-generation fetuses were normal for all doses of tazobactam.

Nursing Mothers It is not known whether ceftolozane or tazobactam is excreted in human milk. Because many drugs are excreted in human milk, exercise caution when administering ZERBAXA to a nursing woman.

Pediatric Use Safety and effectiveness in pediatric patients have not been established.

Geriatric Use Of the 1015 patients treated with ZERBAXA in the Phase 3 clinical trials, 250 (24.6%) were 65 years or older, including 113 (11.1%) 75 years or older. The incidence of adverse events in both treatment groups was higher in older subjects (65 years or older) in the trials for both indications. In the cIAI trial, cure rates in the elderly (age 65 years and older) in the ceftolozane and tazobactam plus metronidazole arm were 69/100 (69%) and in the comparator arm were 70/85 (82.4%). This finding in the elderly population was not observed in the cUTI trial.

ZERBAXA is substantially excreted by the kidneys and the risk of adverse reactions to ZERBAXA may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection and it may be useful to monitor renal function. Adjust dosage for elderly patients based on renal function.

Patients with Renal Impairment Dosage adjustment is required in patients with moderate (CrCl 30 to 50 mL/min) or severe (CrCl 15 to 29 mL/min) renal impairment and in patients with ESRD on HD.

OVERDOSAGE
In the event of overdose, discontinue ZERBAXA and provide general supportive treatment. ZERBAXA can be removed by hemodialysis. Approximately 66% of ceftolozane, 56% of tazobactam, and 51% of the tazobactam metabolite M1 were removed by dialysis. No information is available on the use of hemodialysis to treat overdosage.

For more detailed information, please read the full Prescribing Information, available at ZERBAXA.com.

usi-mk7625a-iv-1507r000
Revised: 07/2015

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www.azurebiosystems.com

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www.bacterioscan.com

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Beckman Coulter

www.beckmancoulter.com

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Carbosynth, LLC 706
www.carbosynth.com
Carbosynth offers over 4500 carbohydrates and nucleosides. This range includes monosaccharides, enzyme substrates, D- and L-sugars, oligosaccharides, detergents and nucleosides. Our catalogue offers quantities for R&D, but many are produced in bulk. For example 2-deoxy-D-glucose, IPTG, methyl-a-D-glucopyranoside, n-octyl-b-D-glucopyranoside, 3,4,6-Tri-O-acetyl-D-galactal, gulonic acid-gamma-lactone, diacetone-D-mannose and 2-nitrophenyl-b-D-galactopyranoside are produced in 10’s-1000’s of kilos.

Caron Products and Services, Inc. 1726
www.caronproducts.com
Caron’s top quality controlled-environment products are backed by an organization dedicated to providing high-level and personal service, on-time delivery, and long-term technical service and support. Product types include: • Stackable and reach-in CO2 incubators • Stability test chambers • Photostability chambers • Plant growth chambers • Insect rearing chambers • Refrigerated, humidified, and diurnal incubators Caron: providing temperature control solutions to life science and industrial markets since 1985.

Cedarlane 208
www.cedarlanelabs.com
Providing products of the highest quality, Cedarlane is “Your One-Stop Reagent Shop”. Our customers take advantage of access to products from over 1000 top global supplier brands. We offer a large variety of products for Microbiology. Open six days a week, customers save money via order consolidation and timely, affordable delivery throughout North America.
Cell Press
www.cell.com
Cell Press is the home for microbiologists, offering high-quality, cutting-edge microbiology research and resources. We publish 14 primary research journals, including Cell and Cell Host & Microbe, the Trends reviews journal series, including Trends in Microbiology, and four primary research journals on behalf of learned societies.

Cempra, Inc.
www.cempra.com
Cempra, Inc. is a clinical-stage pharmaceutical company focused on developing medically and commercially differentiated antibiotics to meet critical needs in the treatment of bacterial infectious diseases. Cempra's two lead antibacterial product candidates address the urgent and increasing need for new treatments targeting drug resistant bacterial infections in the community and hospital setting.

Cepheid
www.cepheid.com
Cepheid is the leading innovator in the field of molecular diagnostics. The Company is dedicated to improving healthcare by developing, manufacturing, and marketing accurate yet easy-to-use systems and tests. By automating highly complex procedures, the company's solutions deliver a better way for institutions of any size to perform sophisticated molecular testing that can dramatically enhance the management of infectious diseases and cancer.

Check-Points
www.check-points.com
Check-Points is dedicated to improving the detection and identification of multidrug resistance in Gram-negative bacteria to support you in preventing the spread of carbapenemases, AmpCs and ESBLs. Our molecular assays include: Check-Direct CPE multiplex real-time PCR: detects KPC, VIM, NDM and OXA-48 including OXA-181 directly from rectal swabs or culture in as fast as 2 hours Check-Direct ESBL multiplex real-time PCR: includes CTX-M-1, CTX-M-2 and CTX-M-9 groups and SHV-ESBL variants Check-MDR CT103 XL microarray assay: now extended with additional carbapenemases (OXA-23, OXA-24, OXA-58, GES, SPM and GIM) and ESBLs (GES, PER, VEB and BEL).

Chemglass Life Sciences
www.cglifesciences.com
For over 60 years, Chemglass has manufactured the highest quality laboratory glassware and equipment. We fabricate standard glassware items, components and have the capability to produce the most complex glass apparatus, intricate electronic equipment and customized machined components.

CHROMagar - DRG International, Inc.
www.chromagar.com
CHROMagar is the manufacturer of the original innovative chromogenic media for the detection of pathogenic microorganisms. Their products are used for clinical and research applications worldwide. DRG International, Inc. develops, manufactures and distributes ELISA kits and is the authorized distributor of CHROMagar culture media in dehydrated form within the United States.

ChunLab, Inc.
www.chunlab.com
ChunLab is the world’s leading specialist in next generation sequencing and bioinformatics in the fields of microbial genomics, metagenomics and transcriptomics. ChunLab has designed a one-stop fully integrated solution covering NGS sequencing, data analysis to user-end bioinformatics software tools. While other companies provide bioinformatics analysis results in Excel or text file formats, ChunLab goes much further with in-depth analysis and the delivery of results via a suite of point and click software browser. These standalone tools, each designed for a specific research discipline, give researchers the power to directly visualize data, run powerful reiterative analysis and more.

Clever Culture Systems AG
www.cleverculturesystems.com
Clever Culture Systems AG, is bringing intelligent automation to microbiology. The Automated Plate Assessment System, APAS®, applies interpretive algorithms to;
- Remove negatives from the workflow
- Separate culture plates with a high probability of clinically significant infection for rapid review
- Channel culture plates with a low probability of abnormality for review

CLSI
www.clsi.org
CLSI is a not-for-profit membership organization that brings together the varied perspectives and expertise of the worldwide laboratory community for the advancement of a common cause: to foster excellence in laboratory medicine by developing and implementing medical laboratory standards and guidelines that help laboratories fulfill their responsibilities with efficiency, effectiveness, and global applicability.

College of American Pathologists
www.cap.org
As the leading organization for board-certified pathologists, the College of American Pathologists (CAP) serves patients, pathologists, and the public by fostering and advocating excellence in the practice of pathology and laboratory medicine worldwide. With more than 18,000 physician members, the CAP has led laboratory accreditation for more than 50 years with more than 7,700 CAP-accredited laboratories in 50 countries.
ContextMedia:Health
www.contextmediahealth.com
ContextMedia:Health is the largest and most innovative provider of digital education solutions at the point of care. ContextMedia:Health delivers hyper-targeted patient education to waiting and exam rooms, impacting over 12M patient visits monthly. Recently, ContextMedia:Health introduced Patient Wifi and the Digital Exam Room Wallboard, which guarantee patients access to relevant health information during resolution moments of their treatment. The Digital Exam Room Wallboard features an interactive physician mode, which provides technology to educate patients with 3D responsive anatomical diagrams that physicians can mark to illustrate aspects of patient illness, and communicate treatment information to improve retention.

Copan Diagnostics, Inc.
www.copanusa.com
With a reputation for innovation, COPAN is the leading manufacturer of collection and transport systems in the world. COPAN’s collaborative approach to preanalytics has resulted in Flocked Swabs, ESwab, Universal Transport Medium and laboratory automation, WASP® and WASPLab™. COPAN carries a range of microbial sampling products, inoculation loops, and pipettes.

Corning Incorporated
www.corning.com/lifesciences
Corning, which has long been recognized by scientists as a supplier of high quality laboratory products, introduces a new line of sample preparation equipment and disposable labware optimized for food and beverage testing. Manufactured to the most rigorous standards, Corning’s beginning-to-end test solutions balance superior quality with unsurpassed value.

CosmosID
www.cosmosid.com
CosmosID is a genomic big data company focused on rapid identification of microorganisms for infectious disease diagnostics, public health surveillance, food safety inspections, pharmaceutical discovery, and microbiome analysis for health and wellness.

Covance Inc.
www.covance.com
Covance Inc., the drug development business of Laboratory Corporation of America® Holdings (LabCorp®) headquartered in Princeton, New Jersey, is the world’s most comprehensive drug development company, dedicated to advancing healthcare and delivering Solutions Made Real®. Information on Covance’s solutions can be obtained through its website at www.covance.com.

Covaris
www.covarisinc.com
Covaris is the recognized industry leader for DNA fragmentation. Adaptive Focused Acoustics® (AFA™) is the gold standard for shearing DNA and RNA in Next-Generation Sequencing applications, without GC bias or thermal-induced damage. The Covaris AFA process is extensively cited in peer-reviewed research articles on DNA fragmentation using all available NGS systems. Covaris Focused-ultrasonicators are recommended by all major sequencing platform providers, and are used by leading Genome Centers worldwide including: the Wellcome Trust Sanger Institute, the Broad Institute, and BGI. For more information, please visit: www.covarisinc.com.

Coy Laboratory Products
www.coylab.com
Anaerobic Chambers tailored to meet your needs. Featuring our flexible vinyl style chambers, the most cited chambers in all ASM Journals and Gloveless units. This year see the new Anaerobic Gas Infuser.

DenLine Uniforms, Inc.
www.denlineuniforms.com
Manufacturer of DenLine Protection Plus lab coats, designed for employee protection against blood & OPIM as mandated by OSHA. Exclusive Light-Back design offers comfort of cotton polyester. Lint free, anti-static..ideal for molecular, stain resistant fabric. Unisex, full cut ladies styles, short and long lengths. Sizes 2XS to 5XL, 4 colors. 200+ hot water commercial wash rated.

DeNovix Inc.
www.denovix.com
DeNovix Inc. (Wilmington, DE) is an instrumentation company that designs, manufactures and sells laboratory equipment for life science applications. Our stand-alone instruments for quantification of nucleic acids and proteins include 1µL UV-Vis Spectrophotometers, Fluorometers and integrated units with 1µL UV-Vis, cuvette UV-Vis and Fluorescence combined. Our compact systems feature pre-installed EasyApps®, an Android based HD touch screen interface and built-in Wi-Fi, Ethernet and USB connectivity.
Diversigen  
www.diversigen.com
Accelerate and transform your research as you capitalize on the diverse opportunities of the microbiome. Diversigen provides comprehensive microbiome and metagenomic services, including customized study design and complex data analysis, focused on solutions to improve human and animal health, environmental conditions, and agriculture production worldwide. Building on the research conducted at the Alkek Center for Metagenomics and Microbiome Research at Baylor College of Medicine, the company has established a reputation for expertise, quality, and customer focus. Harness the power of the microbiome with Diversigen for customized study design, handling difficult sample types, expertly-curated reference database, flexible sequencing, agnostic across diverse platforms, highly skilled bioinformatics team, custom analysis, purpose-ready reporting and access to the renowned scientists at Baylor College of Medicine. For more information, please visit www.diversigen.com.

DNA Genotek  
www.dnagenotek.com
DNA Genotek provides high-quality biological sample collection, stabilization and preparation products for human genetics, microbiology and infectious disease applications. The company’s products protect and stabilize multiple sample types for long-term storage at ambient temperature to ensure the highest quality results for genetic analysis and testing. Due to their reliability and ease-of-use, DNA Genotek’s products are used by thousands of academic, biotechnology, diagnostic, agriculture, and other leading institutions around the globe.

DNASTAR  
www.dnastar.com
DNASTAR is a pioneer in the development of software used to increase life scientists’ productivity. DNASTAR’s comprehensive software suite, Lasergene, supports molecular biologists, geneticists, and structural biologists in meeting virtually all of their DNA, RNA, and protein sequence needs, including Sanger and next-generation sequence assembly and analysis, protein sequence and structure analysis, and protein structure prediction, with easy to use, affordable, and flexible computer software.

DOE Systems Biology Knowledgebase (KBase)  
http://kbase.us/
The Department of Energy Systems Biology Knowledgebase (KBase) is a software and data platform designed to meet the grand challenge of systems biology: predicting and designing biological function. KBase integrates data, tools, and their associated interfaces into one unified, scalable environment, so users do not need to access them from numerous sources or learn multiple systems in order to perform sophisticated systems biology analyses. Users can perform large-scale analyses and combine multiple lines of evidence to model plant and microbial physiology and community dynamics. KBase is the first large-scale bioinformatics system that enables users to upload their own data, analyze it (along with collaborator and public data), build increasingly realistic models, and share and publish their workflows and conclusions. KBase aims to provide a knowledgebase: an integrated environment where knowledge and insights are created and multiplied.

Duke Clinical Research Institute  
www.dcri.org
The Duke Clinical Research Institute (DCRI) is the world’s largest academic research organization, specializing in groundbreaking multinational clinical trials, major national patient registries, and landmark outcomes research. From thought leadership to clinical practice, we craft the right approach for today while advancing the science of tomorrow.

Dynex Technologies, Inc.  
www.dynex.com
Dynex® pioneered microplate technology over 60 years ago providing innovative ELISA instrumentation, including the breakthrough Agility® high throughput automated ELISA system with SmartKit® technology. From industry-leading DSX® and DS2® ELISA systems to the revolutionary Agility, Dynex is the leader in automated microplate processing. In addition to our extensive automated ELISA instrumentation product offerings, Dynex is also proud to offer the new Multiplier Flex® system with M2® Multiplexed Microwell Technology - the perfect platform for assay development in multiplex format. Using automation and straightforward technology transfer, M2 is a unique option to transfer single well ELISA tests to multiplex format.

EliTechGroup Biomedical Systems  
www.elitechgroup.com
ELITechGroup Biomedical Systems will exhibit the Aerospray TB Slide Stainer/Cytocentrifuge with rapid performance (6 minute cycle time), ease of use, reagent cost savings (easily justifiable), with no cross-contamination. We also offer Gram and AFB (TB) control slides Mycofast US, a diagnostic test for Urogenital Mycoplasma in 24 hours.
Elsevier
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Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, deliver better care, and sometimes make groundbreaking discoveries that advance the boundaries of knowledge and human progress. Elsevier provides web-based, digital solutions — among them ScienceDirect, Scopus, Elsevier Research Intelligence and ClinicalKey — and publishes over 2,500 journals, including The Lancet and Cell, and more than 33,000 book titles, including a number of iconic reference works. Elsevier is part of RELX Group plc, a world-leading provider of information solutions for professional customers across industries. www.elsevier.com

Embi Tec
www.embitec.com
Embi Tec designs and manufactures equipment for the modern-day lab. The RunOne Electrophoresis System features a built-in power supply; ideal for quick checks to ensure the integrity of PCR samples. Eliminate EtBr and UV with the PrepOne Sapphire and Image Catcher. Recover better quality DNA and straightforward gel documentation.

Eppendorf
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Eppendorf offers multipurpose and micro centrifuges; pipettes; bottletop dispensers; thermal cyclers; spectrophotometers; tube and plate heaters and shakers; automated liquid handlers; New Brunswick ULT freezers, shakers and CO2 incubators; and DASGIP and New Brunswick bioreactors and fermentors as well as a full range of cell culture plates, dishes and flasks.

Equitech-Bio, Inc.
www.equitech-bio.com
Equitech-Bio, Inc. is a manufacturer and supplier of animal biological products for biopharmaceutical research labs, diagnostic and academic institutions both national and international. We are a mission-driven company that aims to set the standards of excellence for the biotech industry. We provide the highest quality animal and human albumins and IgG, plasma, purified proteins, and anti-sera on the market at a competitive price. Our sister company, Equitech Enterprises, Inc. provides an extensive catalog of FDA approved human blood collections and components. These include serum and plasma, off the clot, platelets, HAMA and AB serum in a choice of individual units or pooled and specializes in custom collections. We also provide other human body tissues and fluids for research purposes. Visit our booth to find out if we can supply what you need for your research.

Era7 Bioinformatics
www.era7bioinformatics.com
Next Generation Sequencing Bioinformatics for Microbiology:
• Microbiome analysis: 16S metagenomics with illumina and PacBio • Shotgun metagenomics • De novo Bacterial genomics with PacBio and illumina • Comparative genomics • RNA-Seq for bacteria • Rich Interactive visualisations • Cloud Based solutions for your databases, pipelines and bioinformatics web applications • Interpretation and Integration of results: Bio4j Platform

ESCMID - European Society of Clinical Microbiology and Infectious Diseases
www.escmid.org
Since its founding in 1983, ESCMID has evolved to become Europe's leading society in clinical microbiology and infectious diseases with members from all European countries and all continents. For more than 30 years, ESCMID has been an influential component in the professional lives of microbiologists and infectious disease specialists and now reaches more than 33'000 members and affiliated members around the world. ESCMID is registered in Switzerland with offices in Basel. We welcome new colleagues from all nations.

EUROFINS PHARMA DISCOVERY SERVICES
www.eurofins.com/PharmaDiscovery
For more than 40 years, Eurofins Pharma Discovery Services has been a trusted CRO supporting drug discovery from HTS to preclinical stages. Uniting the expertise of Cerep, Panlabs & Discovery Services, we support efficacy, safety & PK testing with our products and in vitro pharmacology, cell based phenotypic assay, ADME-Tox and in vivo services.

Evergreen Scientific / Caplugs
www.evergreensci.com
For over 40 years, Evergreen has been a trusted supplier of disposable laboratory supplies. With a catalog of more than 1,500 products in stock and available for immediate shipment, we can respond to our customers needs quickly. We have specialty lines to serve key segments of the industry including clinical chemistry, life sciences, and microbiology. All of our molding is done in-house with full custom capabilities from design and prototyping to production.

Evotec
www.evotec.com
Evotec is a drug discovery alliance and development partnership company focused on rapidly progressing innovative product approaches with leading pharmaceutical and biotechnology companies, academics, patient advocacy groups and venture capitalists. Drug discovery solutions are provided in form of fee-for-service work, integrated drug discovery alliances, development partnerships, licensing of innovative drug candidates and consulting arrangements.
Exact Sciences
www.exactsciences.com
Exact Sciences is the manufacturer of Cologuard - the first and only FDA-approved, noninvasive, stool DNA-based colorectal cancer screening test. All Cologuard tests are run at Exact Sciences Laboratories, a state of the art CLIA registered and CAP certified laboratory located in Madison, WI. Exact Sciences Laboratories invites partnerships with other CLIA laboratories to make Cologuard available as a send-out test.

F1000
www.f1000.com
F1000 provides life scientists and clinicians with a range of services and tools for the rapid discovery, assessment, authoring and publication of research powered by a Faculty of over 11,000 leading experts in biology and medicine: F1000Prime, F1000Workspace & F1000Research. Free demo available at the stand for F1000Workspace, together with a 30 day free trial. Publication in the open science publishing platform F1000Research is open access, and uses an innovative model of immediate publication and transparent peer review. Come and find out more at the stand.

FDA Office of New Drugs
www.fda.gov/drugs
The U.S. Food and Drug Administration’s Office of New Drugs is recruiting Infectious Disease specialists and other physicians with expertise in anti-infective pharmaceuticals to serve in the dynamic and highly challenging atmosphere of drug development and research. Our physicians provide scientific and regulatory guidance to industry and academic sponsors through all phases of drug development, including the review of preclinical scientific findings, clinical trial designs, and overall clinical drug development programs. They carry out a vital public health mission by ensuring that safe and effective drugs are available for the American people.

Focus Diagnostics
www.focusdx.com
Focus Diagnostics, Inc. manufactures and distributes molecular and serology products for use in hospitals and laboratories worldwide. Initial development of our Simplexa™ molecular kits was on the Universal Disc (96 wells) and required sample extraction; this quickly expanded to direct detection on the Universal Disc and eight-well Direct Amplification Disc (DAD). Our Simplexa™ molecular menu include kits for HSV-1 & HSV-2; Flu A/B & RSV; Group A Strep; C. difficile; and more than 50 primer pairs, molecular controls, and reagents. All of our Direct assays, including Simplexa™ HSV 1 & 2 Direct, Simplexa™ Flu A/B & RSV Direct, and Simplexa™ Group A Strep Direct require no sample extraction and provide results in about an hour.

Frontiers
www.frontiersin.org
Frontiers is a leading open-access publisher. Established in 2007, Frontiers drives innovations in peer review, post-publication review, impact metrics, and an ecosystem of open-science tools. Frontiers has published over 43,000 articles across 55 journals and over 400 disciplines, which receive 4 million monthly views, and are supported by over 210,000 researchers.

Gene Codes Corporation
www.genecodes.com
Gene Codes Corporation develops Sequencher®, sequence analysis software for DNA (Sanger and NGS) and RNA-Seq data sets.. Scientists around the world rely on Sequencher’s intuitive user interface, speedy alignment algorithms, and powerful SNP discovery tools to deliver results. Stop by our booth to see what’s new in Sequencher 5.4.1.
GenePOC Inc. 1628
www.genepoc-diagnostics.com
Located in Québec City, Canada, GenePOC Inc. is a privately owned company that develops cost-effective and rapid molecular devices to detect pathogen genes at Point-of-Care. GenePOC has developed a simple and integrated portable instrument for the prevention and early detection of infectious diseases based on a unique centripetal technology platform. Our team of experienced professionals are dedicated to providing healthcare practitioners with high-speed, high-quality, on-the-spot diagnostic devices offering targeted therapy for infectious diseases to achieve optimal patient management around the world.

GeneReach USA 2220
www.genereach.com
GeneReach Biotechnology Corp. is a worldwide biotechnology company dedicated to bringing the innovation to global health management. By developing, manufacturing and marketing products for applied nucleic acid detection technology, we offer disease detection platforms, including equipment and reagents, to multiple industries.

Genetic Signatures 1754
www.geneticsignatures.com

GenMark Diagnostics 410
www.genmarkdx.com
GenMark Diagnostics is a leading provider of automated, multiplex molecular diagnostic testing systems. Utilizing GenMark’s proprietary eSensor detection technology, GenMark’s eSensor XT-8 system and ePlex sample-to-answer systems are designed to support a broad range of molecular diagnostic tests with a compact, easy-to-use workstation and self-contained, disposable test cartridges.

German Center for Infection Research - DZIF 1828
www.dzif.de/en/
At DZIF over 300 researchers from 35 institutions throughout Germany develop new approaches for the prevention, diagnosis and treatment of infectious diseases. The aim is to translate research results into clinical practice quickly and effectively. DZIF is thereby paving the way for the development of new vaccines, diagnostics and drugs.

Getson EB-1/NIW Immigration Lawyers 2156
http://researchergreencard.com
Brian Getson’s immigration law firm often provides a money-back guarantee to scientific researchers qualified for EB-1/NIW green cards. Major scientific organizations have invited Mr. Getson to speak, including the American Society for Cell Biology and the American Chemical Society, in addition to the Wistar Institute. Visit us at researchergreencard.com.

GIANTmicrobes, Inc. 2214
www.giantmicrobes.com
GIANTmicrobes develops and markets plush microorganisms and cells. We offer over 150 different microbes in 4 different sizes from Rhinovirus to Ebola and Zika virus.

Globe Scientific, Inc. 1457
www.globescientific.com
Globe Scientific is a leading producer of high quality laboratory plasticware, glassware and bench top equipment. Our products are sold worldwide and are used in many industries including the Clinical, Research, Hospital, Veterinary, Kit Manufacturing, Education and Specialty Markets. Globe Scientific is headquartered in Paramus, NJ, near all major NJ and NY trucking routes and shipping ports. We stock over 3000 items that available for immediate shipment.

Gold Standard Diagnostics 2215
www.gsdx.us
Gold Standard Diagnostics provides comprehensive diagnostic solutions that improve lab efficiency and minimize overall costs. Through an extensive product menu and outstanding customer service, we solve real laboratory problems. The result is a seamless laboratory experience achieved through our integrated approach. GSD provides a total solution that improves laboratory efficiency while maintaining low total cost of ownership for instrumentation, consumables and support. Our excellent customer service and support is with you from beginning to end to ensure immediate and maximum benefit for your operation. At Gold Standard Diagnostics, we strive to simplify your laboratory experience.

Great Basin Scientific 219
www.gbscience.com
Founded in 2005, Great Basin Scientific (NASDAQ: GBSN) is a molecular diagnostics company whose mission is to rapidly and accurately diagnose, reduce misdiagnoses and significantly limit the spread of infectious disease. Great Basin’s diagnostic system empowers health providers with accurate and timely information to diagnose infectious disease, allowing them to appropriately treat patients to improve outcomes and support antimicrobial stewardship - resulting in improved patient outcomes, shorter hospital stays, and dollars saved. With a compelling customer-centric business model, no-cost instrumentation, simple workflow, low-cost assays and support included at no-charge, Great Basin removes the barriers typically found in adopting molecular diagnostics. Great Basin’s sample-to-result platform is easy-to-use with a simple workflow. The analyzer is placed at no cost and never requires a service agreement to assure results reporting success. The menu of low-cost assays includes C. diff Test, Group B Strep Test, Shiga Toxin-producing E. coli Test and a Staphylococcus Panel with five additional tests and panels planned through mid-2017.
Greiner Bio-One 324
www.gbo.com
Setting the industry standard with innovative life science consumables, Greiner Bio-One manufactures for tissue culture, molecular biology, immunology and HTS. Featuring AutoFlaskTM for automated cell-culture, Light Protection Tubes for light-sensitive reactions, Shorty Pipettes ideal for benchtop-hoods, ThinCert™ TC inserts for cell modeling, migration/invasion, and µClear®, lumox™, and SensoPlates™ for imaging/HCS.

Hardy Diagnostics 1458
www.hardydiagnostics.com
Hardy Diagnostics offers a complete selection of microbiology supplies. We manufacture over 4,000 prepared culture media products and distribute over 6,000 microbiology products. AnaeroGRO™, Pre-Reduced Anaerobic Culture Media, CRITERION™ Dehydrated Culture Media, MBL Control Organisms, Rapid Tests, Stains, Reagents and much more! Also, stop by our booth and ask about our unique products such as Banana Broth for C.diff detection, Carrot Broth™ & GBS Detect™ for hemolytic Group B streptococci detection, HardyCHROM™ Vibrio, the only medium that will differentiate V. vulnificus from V. parahaemolyticus, and V. cholera.

Hawaiian Moon 624
www.aloecream.biz
HiMedia Laboratories Pvt. Ltd. 958
www.himedialabs.com
HiMedia is a global manufacturer of dehydrated culture media, cell culture media, and raw materials (bottles or bulk). Products include Peptones, Tryptones, Hydrolysates, Veg Peptones, Supplements, and Biochemicals. We have animal & non-animal, powder and granulated. Products available in North America from HiMedia Laboratories, LLC.

Hologic, Inc. 615
www.hologic.com
Hologic is committed to improving lives through the development of diagnostics assays that utilize the latest technology for molecular testing, cervical health screening, cytology preparation and perinatal testing. Visit the Hologic booth to learn more about our NAT tests for STIs and other infectious diseases as well as advancements in instrumentation to help the laboratory streamline workflow. Hologic innovatively blends engineering and science like never before. Come experience the power of the Panther® system, a fully automated platform that provides test consolidation, random access sample loading and proven assay chemistry to deliver high performance and results you can trust. See how we are transforming the Panther system to expand assay menu, amplify production and enhance flexibility. Take a look at the Tomcat® general purpose instrument designed to eliminate the manual sample aliquot of liquid-based cytology samples. Hologic provides diagnostics solutions designed to benefit laboratories, clinicians and the patients they serve.

i2a 1526
www.i2a-diagnostics.com
For over 25 years, i2a has been developing, manufacturing and selling microbiology instruments, software & reagents. Today, i2a offers RECITALS®: complete Microbiology Lab Automation. RECITALS® will chain PreLUD® (plate streaking and AST preparation) with MAESTRO® (intelligent incubator), SIRscan® 2000 automatic (AST) and Mass Spec (ID). RECITALS® is orchestrated by our SIRweb®, bacteriology middleware, which offers bi-directional connection to LIS/HIS, mass spectrometry identification management, universal expert system for ID/AST, epidemiology, prevention and follow up of nosocomial infections & epidemiology network. i2a also offers a range of solutions in Microbiology along with reagents and disposables to be used with our instruments.

iCubate, Inc. 2155
www.icubate.com
Symptoms are often shared, but diseases are personal. Personalized medicine should start with personalized diagnosis. iCubate® technology creates a unique, one-step, multiplex PCR MDx platform for personalized diagnostics of infectious diseases and various research applications.

IHMA, Inc and IHMA Europe Sàrl 1447
www.ihmainc.com
IHMA and its affiliates specialize in infectious disease and offer a creative and comprehensive menu of products and services to companies developing and marketing antimicrobial agents or antimicrobial susceptibility tests.
At Illumina, our goal is to apply innovative technologies to the analysis of genetic variation and function, making studies possible that were not even imaginable just a few years ago. Illumina innovative sequencing and array technologies are fueling groundbreaking advancements in life science research, translational and consumer genomics, and molecular diagnostics.

Immune Epitope Database & Analysis Resource (IEDB)  
www.iedb.org
The IEDB is an NIH-supported, freely available resource that provides access to published data related to antibody and T cell epitopes, as well as online tools for prediction and further analysis of immune epitopes. The IEDB has data for infectious and autoimmune diseases, allergens, and alloantigens. Stand-alone tools are also available upon request.

Immunetics, Inc.  
www.immunetics.com
Immunetics, Inc. offers state-of-the-art assay technology for infectious disease diagnosis and blood screening, and for more than ten years has been a leading innovator of tests for bacterial, viral, and parasitic diseases. Immunetics is headquartered in Boston, MA. The company’s mission is to deliver better, cost-efficient care through more accurate diagnosis.

IMMY  
www.immy.com
For more than 35 years, IMMY has focused its attention on Saving Lives One Diagnostic at a Time by manufacturing high-quality diagnostics. With products for cryptococcus, histoplasma, coccidioides, aspergillus, blastomyces, and mycobacteria specimen preparation, IMMY is setting the standard with accurate and affordable diagnostics for infectious diseases. Our focus is to deliver accurate diagnosis through products that achieve Quality, Simplicity, Expertise, and Innovation.

ImQuest BioSciences, Inc.  
www.imquestbio.com
ImQuest BioSciences is a preclinical contract research and development company that provides services for the evaluation of potential new and novel pharmaceutical products. We provide expert laboratory research services to define the efficacy and toxicity of pharmaceutical products and specialize in services for the development of drugs, vaccines and biologic products for the treatment and prevention of infectious disease, cancer and inflammatory disease. As part of our ImQuest SUCCESS platform, our well established in vitro and ex vivo assay platforms provide robust and efficient analysis of therapeutic product efficacy, toxicity and formulation parameters. We also provide expert technical services in flow cytometry, molecular biology, tissue culture, and biochemistry.

INC Research  
www.incresearch.com
About INC Research INC Research (Nasdaq: INC) is a leading global contract research organization (“CRO”) providing the full range of Phase I to Phase IV clinical development services for the biopharmaceutical and medical device industries. Leveraging the breadth of our service offerings and the depth of our therapeutic expertise across multiple patient populations, INC Research connects customers, clinical research sites and patients to accelerate the delivery of new medicines to market. The Company was named “Best Contract Research Organization” in December 2015 by an independent panel for Scrip Intelligence, and ranked “Top CRO to Work With” among large global CROs in the 2015 CenterWatch Global Investigative Site Relationship Survey. INC Research is headquartered in Raleigh, NC, with operations across six continents and experience spanning more than 110 countries.

Infectious Disease News & Healio.com by SLACK Inc.  
www.healio.com/ID
SLACK Incorporated, delivering the best in health care information and education worldwide, invites you to booth #2243. Pick up a free issue of Infectious Disease News and Infectious Diseases in Children. Register at Healio.com/ID for daily news updates, videos, online-only content, extensive CME and specialized email news alerts.
Infectious Disease Special Edition
www.idse.net
Infectious Disease Special Edition is an annual compendium of educational reviews on the latest medical developments and practice guidelines relevant to infectious disease specialists, primary care physicians, nurses and others involved in the treatment of infectious diseases. Each issue offers a collection of review articles written by recognized experts. These reviews present current, accurate, and comprehensive information on topics covering a wide range of patient populations and therapeutic areas. They are designed to serve as a “one-stop” resource for clinicians. Infectious Disease Special Edition takes into account the time constraints of its readers, and offers a compendium of clinical reference tools that are easy to read, with useful and clinical relevant drug tables and treatment algorithms designed to assist readers in their clinical practice.

Infinite Trading
www.infinite.com

Insmed Incorporated
www.insmed.com
Insmed’s mission is to transform the lives of patients battling serious and rare diseases. Insmed is conducting the CONVERT™ INS-212 study, which is a clinical research study designed to explore an investigational medication in adult patients with Nontuberculous Mycobacterial (NTM) lung infections. Visit us at Booth #1653 for more information.

Institute for Clinical Pharmacodynamics
www.icpd.com
ICPD is world-recognized in the field of PK-PD and have pioneered the application of derived knowledge to drug development and commercialization. Our expertise ranges from the laboratory through the Phase 1 Unit, into Phase 2 through 4 to PK and PK-PD mathematical analyses to support regulatory and commercial efforts.

INTEGRA Biosciences
www.integra-biosciences.com
INTEGRA is a leading provider of high-quality laboratory tools for liquid handling and media preparation. We are committed to fulfill the needs of our customers in research, diagnostics and quality control within the life science and medical industry. Visit www.integra-biosciences.com to see our new, groundbreaking VIAFLO 96 and 384 Channel Electronic Pipette.

Integrated DNA Technologies
www.idtdna.com
Integrated DNA Technologies (IDT) is a leader in the development and manufacture of nucleic acid products for the life sciences research and diagnostics markets. IDT serves academic research, biotechnology, and pharmaceutical development communities with products that support applications including: next generation sequencing (NGS), gene amplification, SNP detection, expression profiling, gene quantification, and synthetic biology. In addition to custom DNA and RNA oligonucleotides, IDT provides platform-independent target-enrichment reagents for NGS (xGen Lockdown® Probes, custom adaptors, fusion primers, molecular identifier tags—MIDs), PrimeTime® qPCR Assays, Dicer-substrate siRNA, gBlocks® Gene Fragments for gene construction, and custom gene synthesis.

International Society for Infectious Diseases
www.isid.org
ISID is an educational non-profit organization with over 80,000 members worldwide. Its objectives are to promote communication among those engaged in all aspects of infectious diseases. These goals are achieved through international scientific meetings, fellowship and grant programs, a newsletter, and the International Journal of Infectious Diseases. For more information, visit our website at http://www.isid.org/.

InterScience Laboratories Inc.
www.interscience.com
INTERSCIENCE has been providing high quality equipment for microbiology, especially designed for quick and safe analyses in quality control, since 1979. Please visit our booth to see our DiluFlow® dilutor, our BagMixer® silent blender, our FlexiPump® dispensing pumps and our Plate & Count system.

Jackson ImmunoResearch Laboratories, Inc.
www.jacksonimmuno.com
Specializing in affinity-purified secondary antibodies (many adsorbed against other species) conjugated with Alexa Fluor®, DyLight™, and Cyanine fluorescent dyes; PerCP; and other detection ligands. Other products include anti-IgG, Light Chain specific for Western blotting after IP, Alexa Fluor® 680 and 790 for highly sensitive Western blots. ISO 9001:2008 registered.

JMI Laboratories
www.jmilabs.com
We provide microbiology and molecular services to the pharma industry for the development of antimicrobials, specializing in surveillance monitoring for resistance, new drug development research to define the spectrum of activity, QC and diagnostics studies, and central laboratory reference testing in support of clinical trials including genetic characterization of isolates.
The Kerafast mission is to advance life science research by facilitating access to reagents developed by leading laboratories around the world. Through an online platform, we provide rapid access to these unique reagents, helping remove traditional barriers to sharing biomaterials among researchers. We then reinvest in science by returning generous royalty payments to the contributing investigators and their institutions.

KMC Systems is a leading provider of engineering, design and contract manufacturing services for full-system medical and life science instrumentation. For over 35 years, KMC has been solving complex automation and integration challenges for the molecular diagnostics, laboratory automation and life science markets. Major and emerging OEMs leverage our proven expertise in cell therapy, diagnostic imaging, hematology, microbiology and molecular diagnostics to develop, design and manufacture groundbreaking instrumentation. Partner with our specialists in hardware and software design, robotics, optics, fluidics, chemistry integration, motion and thermal control, risk management, supply chain management, performance testing and lean manufacturing to take your project to the next level. Stop by booth 707 to meet the KMC team.

Consistently ranked among the top intellectual property firms in the nation and worldwide, Knobbe, Martens, Olson & Bear, LLP has about 300 lawyers and scientists nationwide and dedicates its practice to all aspects of intellectual property law, including litigation. Knobbe Martens serves a diverse group of clients from multinational corporations to emerging businesses of all stages. The firm is headquartered in Orange County, California, with offices in San Diego, Silicon Valley, Los Angeles, San Francisco, Seattle and Washington, D.C., and enjoys an international reputation for excellence. More information about the firm can be found at www.knobbe.com.

KWS BioTest Ltd. is an established contract research organization providing a wide range of drug discovery services spanning preclinical development from early cell biology, through efficacy models to clinical sample analysis. KWS BioTest specializes in immunology, inflammation and infection CRO services for the development of small molecules, biologics and ADCs.

Located just 32 miles north of Boston, Lab Rat Gifts is the world’s largest science Themed e-Store! Let your nerd flag fly with our wide assortment of t-shirts, mugs, drinkware, ties & scarfs, stuffed microbes, and much more. Lab Rat Gifts provides corporate gifts for any science enthusiast. Our corporate promotional program provides lab distributors the ability to offer a rewards program for end users through promo cards, gift cards, and custom bulk orders. Be sure to check out our spunky gifts which will bring out the lab rat in you! From our lab to yours these fun gifts are sure to make you smile. Come see us at booth 216! www.labratgifts.com

LabRoots is the leading scientific social networking website and producer of educational virtual events and webinars. Contributing to the advancement of science through content sharing capabilities, LabRoots is a powerful advocate in amplifying global networks and communities. Founded in 2008, LabRoots emphasizes digital innovation in scientific collaboration and learning. We have become a primary source for current scientific news, webinars, virtual conferences and more. Join for free and become part of the largest scientific learning community in the world.

LabX Media Group is the ultimate lab network. It includes four key brands–LabX, LabWrench, Lab Manager and The Scientist. LabX is an online marketplace for buying and selling lab equipment. LabWrench is a social network where lab professionals, manufacturers, and industry experts share ideas, and gather information on lab products. Lab Manager is a publication focused on the lab professional who is responsible for setting the lab’s direction and identifying, recommending and purchasing technology. The Scientist reports on research, technology, news, business and careers in the life sciences.

We are a global leader in laboratory washing and sterilization products for life science and industrial laboratory applications. Lancer manufactures the broadest range of laboratory labware washing systems providing solutions for critical cleaning applications including those for general research labs, petroleum and industrial applications and QA/QC labs (validation available). Our laboratory steam sterilizers are developed for high performance sterilization of labware, processed materials and byproducts of laboratory research for new lab construction or replacement use in life science, biotech and industrial applications.
Lathrop Engineering, Inc.  
www.lathropengineering.com
Lathrop is a full-service contract product development firm specializing in end-to-end development solutions from concept through to commercial product. We offer complete design, engineering, and manufacturing support: program management, industrial design, mechanical engineering, software and electronic engineering, optics design/ engineering, and system architecture for life science/diagnostic instrumentation and medical devices. ISO9001

LGC  
www.lgcgroup.com
LGC is an international life sciences measurement and testing company. LGC provides comprehensive antibacterial, antifungal and antiviral drug development services including pre-clinical evaluation, molecular biology, central laboratory and phase I/IIa clinical trial support. We are also experts in resistance surveillance studies with laboratories world-wide.

Liofilchem  
www.liofilchem.net
Liofilchem, based in Roseto degli Abruzzi, Italy, certified ISO 9001 and 13485, produces diagnostics for microbial identification and antimicrobial susceptibility testing, MIC Test Strip, antibiotic discs, dehydrated and ready-to-use culture media, bio-indicators for monitoring sterilization processes. Liofilchem products are used in over 130 countries in the world.

List Biological Laboratories, Inc.  
www.listlabs.com
List Biological Laboratories, Inc. produces bacterial toxins for research: anthrax, botulinum, pertussis, cholera, difficile, diphtheria, tetanus, staphylococcal and shiga toxins. Products also include lipopolysaccharides (LPS), toxin chains, toxoids, antibodies, conjugates, Select Agents and virulence factors. Products are used to investigate disease models, microbiome, vaccines and live biotherapeutics. cGMP contract manufacturing.

Logos Biosystems, Inc.  
www.logosbio.com
Logos Biosystems is dedicated to the development and commercialization of innovative technologies to support the life science research community. Since 2008, Logos Biosystems has been developing a series of automated systems and imaging instruments for laboratories engaging in research with a cellular and molecular emphasis.

Lucigen Corporation  
www.lucigen.com
At Lucigen, we deliver solutions to current problems in DNA cloning, next gen sequencing, amplification, and protein expression by providing exceptionally reliable products and services to life science researchers. With a focus on quality and customer service, we strive to make your time in the laboratory productive and successful.

Luminex Corporation  
www.luminexcorp.com
Luminex is committed to creating innovative, breakthrough solutions to help our customers improve health and advance science worldwide. We serve the needs of our customers in diverse markets including clinical diagnostics, pharmaceutical drug discovery, biomedical research, including genomic and proteomic research, personalized medicine, biodefense research and food safety. Our goal is to transform global healthcare and life science research through the development, manufacturing, and marketing of proprietary instruments and assays that deliver cost-effective, rapid results to clinicians and researchers.

Macrogen Corp.  
www.macrogenlab.com
Macrogen has been the corporate partner of choice on genomic sequencing for many academic and commercial organizations. Our superior quality, cost effective business model and customer focused services allowed us to expand and grow into an international organization. Our nineteen years of sequencing experience uniquely position us to contribute in the next generation genomic sequencing.

MacVector, Inc  
www.macvector.com
MacVector Inc. develops powerful but easy to use Macintosh applications for Molecular Biologists to simplify and speed up the analysis, manipulation, assembly and documentations of DNA and protein sequences.

Magnolia Medical Technologies  
www.magnolia-medical.com
What happens when a blood culture has been deemed contaminated? The patient has been exposed to HAIs, received unnecessary antibiotic treatment and undergone needless tests and treatments. The implementation of the ACA means physicians and hospitals will be held accountable for risks associated with these treatments. Establishing SteriPath as the sole method of blood culture collection is a sure way to know that your patient is only receiving the care they really need.
### Market Diagnostics International (MDxI)
**Website**: www.mdxint.com
MDxI’s IVD and Life Science international consulting capabilities cover all segments of the diagnostic and research laboratory. Our proprietary IVD Insights™ reports provide laboratory-level details on over 500 analytes. MDxI LabFile is the most accurate, inclusive database of US clinical laboratories, with detailed site data on over 18,000 labs clinical diagnostic labs for use in sales targeting and CRM development.

### Medical Chemical Corporation
**Website**: www.med-chem.com
Medical Chemical Corporation developed and patented the “gold standard” for ova and parasite fixation – Total-Fix®. Total-Fix is a patented non-mercury, non formaldehyde, non PVA fixative for ova and parasites. Compatible with permanent stain, concentration, antigen and molecular (real PCR) assays. We compliment Total-Fix with patented fecal concentration systems and C&S medium. We also manufacture trichrome, gram, blood, AFB and fungal stains. (MCC) Medical Chemical Corporation also will manufacture custom stains and reagents.

### Medpace Inc.
**Website**: www.medpace.com
Medpace is a global full-service clinical research organization providing Phase I-IV core development services for drug, biologic, and device programs. With broad experience in anti-infective drug development, including antivirals, antibiotics, antifungals, biologics, and vaccines, Medpace brings medical, regulatory, and operational expertise as well as specialty lab capabilities to sponsors around the world.

### Melinta Therapeutics
**Website**: www.melinta.com
Melinta Therapeutics pursues contagious ideas to cure serious infections posed by resistant bacteria. Phase 3 studies for ABSSSI are now complete for our lead therapy, Baxdela™ (delafloxacin), and have begun for CABP. In addition, we’re applying Nobel Prize-winning science in the development of novel antibiotics through our ESKAPE Pathogen Program.

### Merck & Company
**Website**: www.merck.com
For 125 years, Merck has been a global health care leader working to help the world be well. Merck is known as MSD outside the United States and Canada. Through our prescription medicines, vaccines, biologic therapies, and animal health products, we work with customers and operate in more than 140 countries to deliver innovative health solutions. We also demonstrate our commitment to increasing access to health care through far-reaching policies, programs and partnerships. For more information, visit www.merck.com and connect with us on Twitter, Facebook, YouTube and LinkedIn.

### Meridian Bioscience, Inc.
**Website**: www.meridianbioscience.com
Meridian Bioscience is a leading manufacturer that develops, manufactures, markets and distributes a broad range of innovative diagnostic tests. These products are designed to enhance patient well-being while reducing the total outcome costs of healthcare and provide definitive results through accuracy, simplicity and speed for the early diagnosis and treatment of medical conditions, such as gastrointestinal, viral and respiratory infections. Visit Meridian’s website at www.meridianbioscience.com.

### MetaSystems Group, Inc.
**Website**: www.metasystems.org
MetaSystems, a leading manufacturer of automated slide scanning systems, offers innovative solutions for microbiology applications. The Metafer slide scanning platform generates high quality whole slide images or selected regions across multiple specimen types. Automatic bar code reading and automatic oil immersion allow for high power image analysis in multiple locations. Network enabled and internet browser based image analysis provides efficient workflow. Our high capacity slide loader, the SFX80, can accommodate up to 800 slides allowing for complete 24/7 automation. The Metafer slide scanner is fully integrated with the COPAN WASP LAB platform for complete unattended processing and imaging of microbiology slides.

### Mettler-Toledo Rainin LLC
**Website**: www.shoprainin.com
Mettler-Toledo Rainin LLC is the single most trusted brand of pipette in life science research. Rainin is a global leader offering the most comprehensive selection of innovative, ergonomic pipettes, quality tips, protein purification systems and service. Rainin...because the future is in your hands.

### Microbiologics
**Website**: www.microbiologics.com
Microbiologics, the world’s #1 provider of ready-to-use biological controls, has everything your laboratory needs for Quality Control. We’re your single source for over 900 QC microorganisms in a variety of formats including qualitative cultures, inactivated pathogens, synthetic molecular standards and more! Learn more at booth #951!

### Microbiology International
**Website**: www.800ezmicro.com
Microbiology International specializes in advanced laboratory instruments and EZ-media solutions to streamline and automate your lab’s processes: autoclaves, media preparation, plate pouring, prepared and powder media, MediaBox™ sterile liquid solutions, pathogen detection, colony counters, spiral platers, serial diluters, anaerobic chambers, sample preparation equipment. Visit booth #803 to discuss your needs.
Microbiology Society
www.microbiologysociety.org
The Microbiology Society is a membership organisation for scientists who work in all areas of microbiology. It is the largest learned microbiological society in Europe, with a worldwide membership. The Society publishes academic journals, organises international conferences, provides a forum for communication among microbiologists and supports their professional development.

MilliporeSigma
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MilliporeSigma is the U.S. life science business of Merck KGaA, Darmstadt, Germany. With 19,000 employees and 72 manufacturing sites worldwide, MilliporeSigma’s portfolio spans more than 300,000 products enabling scientific discovery. MilliporeSigma has customers in life science companies, university and government institutions, hospitals and industry. More than 1 million scientists and technologists use its products. The company is committed to solving the toughest problems in life science by collaborating with the global scientific community.

MiraVista Diagnostics, LLC
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MiraVista Diagnostics is a CLIA and CAP certified mycology reference laboratory with an exclusive focus on developing and processing diagnostic tests for serious fungal infections. We offer the highest standards in clinical accuracy and sensitivity for detection, monitoring and diagnostic testing for blastomyces dermatitidis, histoplasma capsulatum, coccidioides, cryptococcus, aspergillus and beta-D glucan.

MO BIO Laboratories, Inc.
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MO BIO Laboratories, Inc. is a global leader in solutions for nucleic acid purification and protein extraction, offering innovative tools for research in molecular biology. MO BIO’s soil, water, fecal and microbial DNA, RNA and protein kits are now the method of choice among scientists in microbiology and microbiome fields.

Moltox
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Moltox is a leading manufacturer of prepared culture media products with hundreds of media formulations and formats. Our standards of quality have made us a preferred supplier for prepared media to laboratories through our distributors around the world. Moltox is your trusted supplier for a wide variety of the highest quality media products used in industrial microbiology and research laboratories as well as academic institutions. Plated media are available in many applications including monoplates, biplates, triplates and quadplates as well as 6,12 and 24 well plates. We also have a wide range of reagents, broths and agars available in multiple tube and bottle sizes. Moltox Quality Control statements are available for each lot Moltox also welcomes the opportunity to work with customers to produce quality custom formulations. You do the science we'll make the media!

Molzym GmbH & Co. KG
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Molzym offers products for molecular microbiology, ranging from pre-analytic kits, MolYsis™, for the selective enrichment of microbial DNA from body fluids, DNA-free Taq DNA polymerase and DNA-free 16S/18S Mastermixes. Universal Microbe Detection kits combine technologies for bacterial and yeast DNA isolation from body fluids and tissues and PCR-based universal rDNA detection.

Mother Dirt
www.motherdirt.com
Mother Dirt is the consumer product division of AOBiome, a biotechnology company researching the role of Ammonia-Oxidizing Bacteria (AOB) on the skin. Mother Dirt produces a biome-friendly product line that restores and maintains good bacteria on the skin. The Mother Dirt line improves the texture and appearance of skin, reduces reliance on personal care products and chemicals, and balances oily or dry skin.

MP Biomedicals
www.mpbio.com
MP Biomedicals sells 55,000 products featuring molecular biology products and FastPrep sample prep instruments, accessories and nucleic acid purification kits. We supply immunology and cell biology products, with antibodies, antigens, purified proteins, culture media and immunoassay reagents. We serve researchers worldwide with innovative tools and unparalleled service.
Nanosphere
www.nanosphere.us
Nanosphere is enhancing medicine through targeted molecular diagnostics that result in earlier disease detection, optimal patient treatment and improved healthcare economics. The Company’s versatile technology platform, the Verigene® System, enables clinicians to rapidly detect the most complex, costly and deadly infectious diseases through a low cost and simple-to-use multiplexed diagnostic test.

NASA Space Life Sciences
www.nasa.gov
NASA space life sciences executes high quality, high value research and application activities developing technologies that will allow humans to travel safely and productively in the environment of space. Come learn about grant funding opportunities for spaceflight research and postdoctoral fellowships.

National Biosafety and Biocontainment Training Program (NBBTP)
www.nbbtp.org
NBBTP Fellowship is a two-year post-baccalaureate and post-doctorate immersive biosafety training experience open to U.S. citizens, permanent residents, or U.S. Nationals. The program includes traditional lectures, reading assignments, mentoring projects, and travel to conferences and training sessions. The NBBTP is a partnership between the DOHS and NIAID at the NIH.

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As a leading resource for biomedical literature citations, biological sequences, and bioinformatics tools, NCBI provides the public with free access to over 40 databases and tools. These include PubMed and PMC for literature; Nucleotide, Protein, Assembly, and SRA for sequences; dbSNP,dbVar, and ClinVar for variations; and BLAST for sequence analysis.

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NCGS, Inc. is a full-service, international CRO. We have been in business for 32 years, have helped with 34 approved products, and have ZERO 483s. We are a privately-held, WBENC Certified company that offers our clients only tenured teams, seeking ways to make each clinical effort more quality based, thorough, timely and cost-effective.

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New England Biolabs, Inc.
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New England Biolabs, Inc. is the industry leader in the discovery and production of enzymes for molecular biology applications and now offers the largest selection of recombinant and native enzymes for genomic research. NEB continues to expand its product offerings into areas related to PCR, gene expression, sample preparation for next generation sequencing, synthetic biology, glycobiology, epigenetics and RNA analysis. Featured products include NEBNext® Library Prep Reagents for NGS, a broad selection of PCR polymerases and new tools for DNA assembly.

Newport Corporation
www.newport.com
Newport’s Corion Optical Filters and Opticon Replicated Optics are key enablers in a wide variety of biomedical instruments including RT-PCR Systems, Cytometers, DNA Analyzers, In-vivo Imagers, Microarray/Microplate Readers, Confocal and Epi-fluorescence microscopes, FTIR spectrometers, and many more. For more information, please visit our website at www.newport.com/corion-opticon.

Nikon Instruments Inc.
www.nikoninstruments.com
Nikon Instruments Inc., leader in microscopes and microscopy software, will exhibit: Eclipse NiU, highly-versatile research microscope; Eclipse Ci clinical microscope featuring advanced ergonomics, ultra-bright LED illumination with minimal power consumption and long lamp lifecycle; world-renowned CFI60 optics providing the sharpest, clearest images and Digital Sight cameras for advanced collaboration/image sharing.
Norgen Biotek Corp.
www.norgenbiotek.com
Norgen Biotek provides researchers with innovative kits for Molecular Diagnostics (MDx), Sample Collection/Preservation (from Urine, Stool, Plasma/Serum/Blood, Saliva) and microRNA/RNA/DNA/Protein Purification/Clean-Up (spin-column/96-well). Our kits feature exceptional quality, ease-of-use and sensitivity. Norgen Biotek provides researchers with the tools to address any sample preservation and preparation challenge.

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OpenBiome
www.openbiome.org
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OpGen, Inc.
www.advandx.com & www.opgen.com
OpGen provides precision medicine tools to combat infectious disease, providing rapid information about life-threatening infections and decreasing the spread of multidrug-resistant microorganisms. QuickFISH® products are FDA-cleared diagnostics that rapidly detect pathogens in positive blood cultures. Our clinical laboratory services utilize Acuitas® tests and Acuitas Lighthouse™ to detect antibiotic resistant organisms.

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www.oxfordimmunotec.com
Oxford Immunotec Global PLC is a global, high-growth diagnostics company focused on developing and commercializing proprietary tests for the management of immune-regulated conditions. The Company’s first product is the T-SPOT®.TB test, which is used to test for tuberculosis infection. The T-SPOT.TB test has been approved for sale in over 50 countries, including the United States, where it has received pre-market approval from the Food and Drug Administration, Europe, where it has obtained a CE mark, as well as Japan and China. The T-SPOT.CMV test and the T-SPOT.PRT test are the Company’s second and third products and part of a series of products intended for the transplantation market. In addition to these three products, the Company has an additional six active development programs, each of which leverages our T cell, B cell and innate immune measuring technology. The Company is headquartered near Oxford, U.K. and in Marlborough, Mass. Additional information can be found at www.oxfordimmunotec.com.
Oxford Nanopore Technologies Ltd
www.nanoporetech.com
Oxford Nanopore Technologies is developing and commercialising a new generation of nanopore-based electronic systems for analysis of single molecules, including DNA, RNA and proteins. The handheld MinION™ device and the high-throughput/high sample number PromethION™ are designed to provide simplicity of workflows and real-time data streaming. VolTRAX™, is a rapid, programmable, portable, disposable sample preparation device designed to convert complex samples directly onto a nanopore sensing device. Metrichor™, is a cloud based service for real time molecular analyses. The technology may be used in scientific research, personalised medicine, crop science, security and defence and environmental applications.

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Pathogenetix exhibiting revolutionary molecular serotyping platform based on single molecule detection. This system is the only bacterial identification system that provides molecular serotype and strain type information directly from a complex sample. No isolation is required. Applications include public health, food safety, hospital acquired infections & DNA sample preparation for next generation sequencing.

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Better Treatments Through Research and Discovery. We deliver a comprehensive portfolio of reagents and detection technologies, imaging systems, sample preparation workstations, informatics applications, and contract research services to support everything from drug, therapy, and disease research to the development and analysis of exciting new drugs and treatments.

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Philips BioCell A/S
www.philips.com/biocell
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PLAS-LABS, Inc. 514
www.plas-labs.com
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POCARED Diagnostics 1810
www.pocared.com
POCARED Diagnostics Ltd. is a developer of leading edge technologies which provide the first truly comprehensive CULTURE-FREE Microbiology® solution. Using direct specimen sampling, our technologies provide actionable results in minutes and organism recovery and viability second to none. POCARED™ stands unique in its ability to assist in optimizing antibiotic stewardship, patient care and laboratory efficiency.

Prior Scientific, Inc. 214
www.prior.com
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Pro-Lab Diagnostics 610
www.pro-lab-direct.com
Established in 1974 Pro-Lab Diagnostics is dedicated to provide high quality, cost effective immunodiagnostics and molecular products in addition to a wide range of laboratory equipment. Meet the Pro-Lab team and learn about our featured products such as the Prolex™ Microbiology Latex Kits, Vision 2™ Antisera, the Pro-AmpRT™ isothermal amplification platform, and an array of laboratory equipment.

PSI CRO 2211
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PSI is a global, full service CRO with 20+ years of stability, leading to a reputation for finishing trials on-time. PSI has conducted studies in antivirals, antifungals and antimicrobials in sepsis, cUTI, cIAI, CAP and HAP and ABSSI. The geographical span for PSI’s ID experience includes, NA, EU, LA, SA, AUS and India.

Puritan Medical Products Co., LLC 648
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Puritan Medical Products, founded in 1919, is the leading US manufacturer of clinical and diagnostic devices, specializing in specimen collection and transport systems. Products include patented HydraFlock® and PurFlock Ultra® swabs, other specialty tipped applicators as well as custom media filled transport systems for clinical, diagnostic and environmental testing.

QIAGEN 1822
www.qiagen.com
Sample to Insight means QIAGEN offers you the industry’s most reliable sample technologies, because samples matter to your success. Our top-quality assays and panels enable you to accurately analyze and identify diseases and genetic variations. Our bioinformatics software and curated knowledge bases transform your raw data into relevant, actionable findings. And our automation solutions provide you seamless and cost-effective workflows. Sample to Insight.

Q-linea AB 1522
www.qlinea.com
Based on a proprietary molecular platform, Q-linea develops a fully automated, random access system for sepsis diagnostics, delivering both pathogen identity and antibiotics susceptibility within the same working shift without requiring a positive blood culture. The molecular platform and workflow is shown to enable identification of pathogens directly in whole blood from septic patients. A probe panel, covering 40+ relevant pathogens and pathogen groups, delivers both bacterial and fungal pathogen ID, as well as selected resistance markers to give an indication on resistance profile. For samples where a bacterial ID have been determined, this is followed by a true antibiotics susceptibility analysis, delivering a MIC value.
QuanDx Inc. 623
www.QuanDx.com
QuanDx’ vision is to develop and commercialize innovative and unique research / clinical diagnostic assays based on proprietary technology for use in clinical and research laboratories worldwide.

Quest Diagnostics 1444
www.QuestDiagnostics.com
Quest Diagnostics empowers people to take action to improve health outcomes. Derived from the world’s largest database of clinical lab results, our diagnostic insights reveal new avenues to identify and treat disease, inspire healthy behaviors and improve health care management. Visit us at QuestDiagnostics.com.

QuickSlide 1626
www.quickslide.com
GB&B Company was founded in 1974, originally as Independent Services. In 2016, GB&B was acquired by Hardy Diagnostics and has been rebranded as QuickSlide. With a long history in clinical laboratory equipment, QuickSlide is a leader in the development, manufacturing and servicing of automated slide stainers. QuickSlide is committed to providing quality and innovative laboratory equipment and superior service.

Qvella 448
www.qvella.com
Qvella is a development-stage molecular diagnostics company with the goal of dramatically reducing time to results in microbiology. The company has developed a highly differentiated technology for pathogen detection and identification by direct sampling of bodily fluids without the need for culturing or time consuming sample processing.

Rheonix, Inc. 835
www.rheonix.com
Rheonix, Inc. is committed to improving standards of care by making molecular diagnostics available to more people, in more places, more often. As scientific knowledge evolves, so does the need for new diagnostic technology to simplify processes and enhance innovation. Rheonix, through experienced leadership and creative vision, has developed the Encompass platform, a highly customizable technology with unmatched versatility and affordability. The platform performs fully automated, complex molecular assays in an easy to use and economical format on the Rheonix CARD® cartridge. With both the Rheonix CARD and Encompass family of products, Rheonix is well-positioned to penetrate key molecular diagnostic market sectors, from reference labs through point-of-care and everywhere in-between.

Roche Diagnostics Corporation 841
http://asm2016.roche.com
Roche touches the entire spectrum of diagnostics. Our focus is doing now what patients need next by delivering innovative healthcare solutions. A leader in the management of infectious diseases, Roche Diagnostics offers award-winning services and a comprehensive IVD portfolio with applications in microbiology, virology, women’s health, genomics and oncology. We are committed to working with our lab partners to help improve the management of disease, one patient at a time.

Royal Society Publishing 419
www.royalsociety.org/Journals
The Royal Society is the independent scientific academy of the UK and the Commonwealth, dedicated to promoting excellence in science. It publishes several international journals covering this discipline, and welcomes submissions of research papers, reviews and theme issue proposals. Visit our stand to find out how to submit your research, pick up sample journal copies and get a free trial to read our influential, cutting edge content.

RTLGenomics 627
www.rtlgenomics.com
RTLGenomics is a full service Next Generation sequencing provider offering all the major sequencing platforms, library prep, DNA extraction, qPCR and bioinformatics/biostatistics. With a team of scientists who can assist you at every stage of your project, our goal is to help complete your sequencing project quickly and cost effectively.

SA Scientific Ltd 238
www.sascientific.com
SA Scientific is a FDA, USDA registered, ISO 9001 and 13485 certified facility, that focuses on research, design and development of immuno chromatographic lateral flow rapid tests. The portfolio of tests include hCG, Rotavirus, Adenovirus, RSV, Legionella, Influenza A and B, Strep A, E.Coli, Salmonella, Canine Heartworm, Parvo and Giardia.

Sage Science, Inc. 306
www.sagescience.com
Sage Science develops sample prep technologies for the life science research. We focus on using electrophoresis to improve and automate high-value steps in Next Gen sequencing workflows. Sage manufactures and sells the Pippin™ DNA size selection systems, which are widely used for whole-genome, RNA, and ChIP sequencing. Sage also sells the SageELF™, which whole-sample fractionation system for DNA and proteins.
Sarstedt, Inc. 1651
www.sarstedt.com
Sarstedt is a worldwide provider of laboratory consumables, specimen collection products, medical devices and instrumentation. Products for microbiology include Petri dishes, swabs, inoculation loops, and general labware, as well as benchtop instruments. Ask about our DishRack for easy handling and organization of Petri dishes.

Sartorius 854
www.sartorius.us
Sartorius is a leading supplier of equipment and services for the lab and biopharmaceutical industries. Microbiology products cover the whole range of microbial enumeration products, reusable filter systems, peristaltic pumps, single use sterility test units, media transfer, air monitoring equipment, and real-time PCR test kits for mycoplasma detection.

Science/AAAS 507
www.aaas.org
The American Association for the Advancement of Science (AAAS) is the world's largest multidisciplinary scientific society and a leading publisher of cutting edge research through its Science family of journals. A trusted voice for science since 1848, our membership includes more than 100,000 members, 250 affiliated societies and spans more than 91 countries. A nonprofit association, AAAS seeks to advance science, engineering, and innovation throughout the world for the benefit of all people, with programs that: strengthen support for science and technology; enhance communication among scientists, engineers, and the public worldwide; foster scientific freedom and responsibility; promote advancements in science education; and strengthen and diversify the science and technology workforce.

Scientific Device Laboratory Inc. 234
www.scientificdevice.com
Scientific Device Laboratory makes an array of innovative products for clinical laboratories and academia. These include custom printing & coating of microscope slides, microfluidics, rapid stains, control slides, OEM components, The MiPlatform microscope adapters for smartphones, and lab work aids. Do you have a problem? Ask us for a solution.

SDSU Research Foundation 357
www.coralandphage.org
We are a California State University-SDSU Dr. Forest Rohwer is a Professor and Phage, Coral and Cystic Fibrosis researcher. Leah Pantea and Ben Darby are our talented artists who illustrated Dr. Rohwer’s book titled, “Life in Our Phage World.”

Seegene Technologies 2115
www.seegenetech.com
Seegene Technologies uses proprietary multiplex PCR technologies, DPO™, TOCE™ and MuDT™, to provide 25-plex semi-quantitative and 8-plex quantitative real time PCR assay solutions. With unparalleled sensitivity and specificity, our catalog and custom assays simultaneously detect an unprecedented number of targets including infectious viruses, bacteria and other relevant pathogens and mutations.

Sekisui Diagnostics 428
www.sekisuidiagnostics.com
Sekisui Diagnostics OSOM® rapid test line includes Influenza A & B, Pregnancy, Strep A, Mononucleosis, Trichomonas, Bacterial Vaginosis, H. pylori, iFOB and other infectious disease assays. For more information please visit our web site at www.sekisuidiagnostics.com

Serespe Ltd. 2240
www.serosep.com
Serespe Ltd will be displaying EntericBio. Since product launch, end of 2012, EntericBio a stool pathogen screening assay for enteric pathogens has transformed the Irish and UK market to full molecular screening in a multiplex assay format without any DNA extraction step. The company is now poised to enter the US market following its huge success in other markets and welcome meeting potential interested customers.

SHEL LAB (Sheldon Manufacturing, Inc.) 1745
www.shellab.com
Sheldon Manufacturing, Inc. is an ISO 9001:2008 certified manufacturer of high quality and innovative constant temperature equipment to the global market. Major product lines include incubators, humidity test chambers, ovens, water and bead baths, and anaerobic chambers for the life science, pharmaceutical, biomedical, environmental and industrial markets. Founded in 1970, Sheldon utilizes over 40 years of manufacturing expertise to aggressively pursue new product opportunities that add value to our customers’ portfolio. Sheldon markets a complete line of products under the SHEL LAB and Lab Armor brands, which complement our OEM manufacturing capabilities. Over the past 40 years Sheldon has worked with industry leaders to design solutions for production and research needs across the entire constant temperature/ environment spectrum. This experience is apparent in every project we engineer. Over the years, our reputation has grown as an innovator of dependable and reliable equipment, designed demanding environments. Sheldon Manufacturing, Inc. was founded in 1970 with the goal of being a worldwide leading manufacturer of constant temperature equipment. Sheldon has been designing and manufacturing equipment for the biotechnology, pharmaceutical, research and production markets ever since.
**Society for Applied Microbiology**

**www.sfam.org.uk**

SfAM is the oldest microbiology society in the UK, serving microbiologists around the world. As the voice of applied microbiology, SfAM works to advance, for the benefit of the public, the science of microbiology in its application to the environment, human and animal health, agriculture, and industry.

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**Solabia USA, Inc.**

**www.solabia.com**

Solabia, one of the leading peptone manufacturers worldwide, has achieved this leadership position through 2 state of the art production centers on two continents for animal and plant material, insuring separation and traceability. Solabia’s savoir-faire serves as a constant added value to assist its customers with in house expertise in microbial culture media development and production through its Biokar Diagnostics division, in addition to fermentation and cell culture work for the biotech, cosmetic, probiotic and pharmaceutical industries. We feature Kosher (soon Halal) certified, non-allergen and non-GMO components that are available locally in the US from our subsidiary, Solabia USA, Inc.

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**SouthernBiotec**

**www.southernbiotech.com**

SouthernBiotec is dedicated to the development, production, purification, conjugation, and commercialization of the world’s highest quality antibodies for research use. As we enter our 34th year, we are pleased to continue our commitment to providing the highest quality reagents manufactured in ISO 9001:2008 certified facilities.

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**Specific Technologies**

**www.specifictechnologies.net**

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**SPEX SamplePrep**

**www.spexsampleprep.com**

SPEX SamplePrep’s wide range of mills and grinders has been solving sample preparation problems since 1954. Our Freezer/Mill® is a powerful cryogenic grinder that pulverizes tough plant and animal samples. Our 2010 Geno/Grinder® is the ultimate plant & animal tissue homogenizer. Visit our booth to see our innovative products.

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**Springer**

**www.springer.com**

Springer is one of the world’s leading global research, educational and professional publishers, home to an array of respected and trusted brands providing quality content through a range of innovative products and services.

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**SSI Diagnostica**

**www.ssi.dk/ssidiagnostica**

SSI Diagnostica has been an independent business unit under Statens Serum Institut since 1998. In March 2016 Adelis Equity Partners acquired the company with a planned takeover date the 1st. September 2016 after final approval from the Danish authorities. SSI Diagnostica develop, produce and sell in vitro diagnostica for clinical microbiology, veterinary diagnostics, food, environmental and hygiene control to the home market as well as abroad. Today the company employs about 100 people. Our products are sold worldwide and encompass antisera, diagnostic kits and culture media from our own production plant in Hillerød as well as blood products from our farm Hvidesten in Allerød. We strive to supply products of a very high quality. Most of our products are CE-marked and produced according to ISO 9001 and ISO 13485 certification.

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**Sterlitech Corporation**

**www.sterlitech.com**

We are a leading manufacturer and marketer of precision filtration products and laboratory equipment that scientists across the globe rely upon for high-tech solutions to their filtration needs. Our selection of filtration equipment includes products to handle highly corrosive reagents, extreme temperatures, intense pressures and other harsh laboratory conditions while delivering consistent, reliable performance. Add to that our assortment of carboys, bench-top centrifuges, and specialty equipment and it becomes evident why Sterlitech is one the fastest growing companies in the industry.

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**Stone Medical Corporation**

**www.stonemedcorp.com**

Stone Medical Corporation provides hospitals with Clean Collect Blood Culture Kits. Clean Collect uses a patented diversion method to prevent contamination of blood cultures. Blood culture contamination results in unnecessary treatment of patients and costs totaling $15.3 billion/year. Hospitals using Clean Collect have reduced contamination by an average of 74%.
Streck develops and manufactures products for clinical and research laboratories around the world. Streck products are developed with an understanding that laboratory professionals need answers fast, expect reliable performance, and seek opportunities to increase efficiency in their protocols. The molecular product line includes a rapid real-time thermal cycler that performs PCR in 20 minutes, real-time PCR test kits for the detection of gram-negative Beta-lactamase gene families, and a hot-start PCR enzyme specifically formulated for rapid thermal cycling. Recognized worldwide as a leader in cell stabilization, Streck also offers a line of blood collection tubes that maintain sample integrity, are stable at room temperature and minimize the adverse effects of time, storage and transportation on patient samples.

SurModics IVD
www.surmodics.com
SurModics offers innovative diagnostic assay components for the in vitro diagnostic, research, and biopharmaceutical markets. Our high-quality products include protein stabilization and blocking reagents, colorimetric and chemiluminescent substrates, autoimmune antigens, stop reagents and diluents, as well as activated microarray slides, enabling our customers to produce exceptional products.

Swift Biosciences
www.swiftbiosci.com
Swift Biosciences specializes in sample preparation for NGS. We are an energetic, highly innovative company focused on creating better tools to empower NGS technologies and deliver superior science. Our products are designed to help analyze samples faster, easier, and with greater sensitivity and accuracy while being compatible with leading instrumentation.

Systec GmbH
www.systec-lab.com
Manufacturer of autoclaves (steam sterilizers) and Mediapreparators for microbiological laboratory applications from 10 to 1580 liter chamber volume. Microprocessor controlled autoclaves with many options and accessories for safe, easy, accurate, reproducible and validatable sterilization processes.

T2 Biosystems, Inc.
www.t2biosystems.com
Stop waiting days for blood culture results! T2 Biosystems offers the first and ONLY species-specific sepsis pathogen diagnostic panel -- requiring no blood culture -- delivering faster, easier and more accurate results in 3-5 hours. Run on the fully automated T2Dx® Instrument utilizing T2 Magnetic Resonance (T2MR®) technology, the T2Candida® Panel rapidly identifies the five clinically relevant species of Candida direct from whole blood which enables physicians to initiate therapy on day zero. Sepsis, which affects over 1.6 million people each year, has a mortality approaching 50%, and is the most expensive hospital treated condition in the US costing healthcare systems over $20B a year. In clinical studies, T2Candida has demonstrated superiority to blood culture for the detection of candidemia and invasive candidiasis. In head-to-head comparative studies for the detection of Candida, T2Candida results indicated a sensitivity of 96.4% compared to a sensitivity of 60% for blood culture. Importantly, T2Candida specificity was shown to be 99.4%. The T2Dx and T2Candida are FDA cleared and in use in over 30 hospitals worldwide. www.t2biosystems.com, Booth 1622.

Taylor & Francis Group
www.tandfonline.com
Taylor & Francis is committed to the publication of scholarly research and publishes a variety of journals relevant to microbiology, including our life science titles. Visit us at www.tandfonline.com or visit the Taylor & Francis journals booth to learn about our products and services, and to request FREE samples.

TECHLAB, Inc.
www.techlab.com
TECHLAB, Inc. has over 25 years of experience developing and manufacturing rapid non-invasive enteric in vitro diagnostics for C. difficile, intestinal inflammation, Shiga toxin, and parasites including Giardia, Cryptosporidium, and Entamoeba histolytica. TECHLAB, Inc. is ISO 13485 certified with global distribution of FDA cleared and CE marked products.
Tetracore, Inc.
www.tetracore.com
Tetracore is a biotechnology research and development organization that develops highly innovative diagnostic reagents and assays for infectious diseases and biological warfare (BW) threat agents. The company focuses on antibody-based and nucleic acid-based detection reagents and technologies. Tetracore offers a broad range of highly-specific, rapid, antibody-based test kits and antibody reagents for the detection of BW infectious agents and toxins, including the first FDA cleared test kit for identification of B. anthracis from colonies. Tetracore also offers a product line of real-time, probe hydrolysis Polymerase Chain Reaction (PCR) test kits for sensitive and specific detection of BW agents and animal pathogens. In addition, Tetracore contracts with the US Government for development of: real-time PCR diagnostic tests for BW agents, novel nucleic acid extraction procedures, and specialized nucleic acid products.

The Medicines Company
www.themedicinescompany.com
The Medicines Company’s purpose is to save lives, alleviate suffering, and contribute to the economics of healthcare by focusing on 3,000 leading acute/intensive care hospitals worldwide. Its vision is to be a leading provider of solutions in three areas: acute cardiovascular care, surgery and perioperative care, and serious infectious disease care. The company operates in the Americas, Europe and the Middle East, and Asia Pacific regions with global centers today in Parsippany, NJ, USA and Zurich, Switzerland.

The Micron Group/US Micron, LLC
www.micron-group.com
Micron is an innovative global contract research organization offering services including: drug development and marketing, consulting, contract R&D, communications, data management, and biostatistics. All senior staff have extensive anti-infective experience in drug discovery, drug development, & marketing support. Micron is based in the UK, US, and South Africa.

The Vexed Muddler
www.thevexedmuddler.com
The Vexed Muddler creates unique hand-crafted ceramic jewellery and accessories inspired and informed by microbial life.

Thermo Fisher Scientific
www.thermofisher.com
Thermo Fisher Scientific is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. Through our Thermo Scientific, Applied Biosystems, Invitrogen, Gibco and Ion Torrent brands, we help customers accelerate innovation and enhance productivity. Thermo Fisher Scientific supplies innovative solutions for the world’s clinical, academic research and pharmaceutical and biotech industries. With applications that span the microbiological processes –from microbial detection to susceptibility and genetic analysis – we provide a broad range of products and services that support new drug development and clinical trials through to patient diagnosis, treatment and antimicrobial resistance monitoring, as well as research applications.

TIB MOLBIOL, LLC
www.tib-molbiol.com
TIB MOLBIOL has been a leading provider of oligonucleotides since 1990. As an ISO 9001 and ISO 13485 certified company, TIB MOLBIOL is dedicated to supplying top quality products. Our product specialty is oligonucleotide synthesis and design. TIB offers a wide variety of products & services such as: Oligonucleotide synthesis, Custom Assay Design, Hybridization probe based LightMix Kits for a wide array of targets, Hydrolysis probe based Modular Dx kits for a wide array of targets, SimpleProbe based LightSNiP assays for Human target SNPs, ASRs, Troubleshooting, and Assay optimization Offices are located worldwide in USA, Germany, Italy, Spain & Poland. We can be reached at (732)252-1110 or by email at dna@tibmolbiol.com.

TransPharm Preclinical Solutions
www.transpharmsite.com
TransPharm Preclinical Solutions is a reliable single source provider of a complete array of studies in infectious disease animal models. Our scientific team is highly skilled in designing and performing a comprehensive set of studies to determine antibiotic efficacy in a wide variety of infected animal models.
**Exhibitor Display Descriptions**

**Trilobite Glassworks**
www.etsy.com/shop/trilobiteglassworks
Jane Hartman is the owner and sole artist of Trilobite Glassworks, producing decorative as well as functional glass art. Jane’s educational background in science is evident in her choice of subjects, which includes everything from insects, fish, and trilobites; to protozoa, planarians and viruses. Though her art is stylized, Jane pays particular attention to scientific detail. She specializes in working directly with scientists to create one of a kind science-based works of art. These connections have led to commissions from around the world in a wide range of biological subject areas. Her work may be seen at various galleries and on her website: http://trilobiteglassworks.weebly.com and https://www.etsy.com/shop/trilobiteglassworks.

**U.S. Dept. of Energy Genomic Science Program**
www.genomicscience.energy.gov
The U.S. Department of Energy's Genomic Science program uses microbial, plant, and multispecies community genomic data, high-throughput analytical technologies, and modeling and simulation to support systems biology research aimed at developing a predictive understanding of biological systems behavior relevant to solving energy and environmental challenges.

**UCLA Health**
www.uclahealthcareers.org
UCLA Health defines greatness by the quality of the patient experience we are able to deliver. Each and every time. To every single patient. If that’s where your ambitions lie, UCLA is where you belong. We offer unequaled challenges and opportunities to further your education, training and career.

**University of Maryland, Institute for Genome Sciences**
www.igs.umaryland.edu/
The Genomics and Informatics Resource Centers at the Institute for Genome Sciences offer cutting-edge, high-throughput sequencing and analysis services. We use a sophisticated LIMS, multiple sequencing platforms, and customized assembly, annotation, variant detection, and comparative analysis pipelines to deliver the highest quality genomic, metagenomic, transcriptomic, and epigenomic data.

**University of Washington**
www.depts.washington.edu/labweb
Molecular Microbiology Diagnosis: •Application of whole genome sequencing for bacterial strain typing in molecular epidemiology •Whole-genome sequencing for high-resolution investigation of methicillin-resistant Staphylococcus aureus epidemiology and genome plasticity.

**UVP, LLC**
www.uvp.com
UVP LLC offers gel documentation/chemiluminescent blot imaging systems, including ChemiDoc-It TS3 w/integrated 15.6" touchscreen. UVP manufactures ultraviolet lamps, PCR hoods, transilluminators, crosslinkers and hybridization ovens. Analytik Jena products include real-time and endpoint thermal cyclers, homogenizers, multi-channel spectrophotometers, automated nucleic acid extraction systems, and DNA/RNA isolation/extraction kits – ask for free samples!

**Viralab Inc**
www.viralab.com
Advanced Immunoblot technology for the research and clinical laboratory. Viralab provides state of the art blot technology for both infectious disease and auto-immune testing and research. Viralab offers the flexibility in reagents and test systems for the high volume demand of healthcare professionals as well as the tailored needs of the scientific community.

**Vista Technology Inc.**
www.vistatechnology.com
Vista Technology Inc. manufactures and supports the ISOPLATER 180i - Automatic Petri Dish Streaking Equipment line of Microbiology equipment for the automation of microbiological spreading of clinical specimens onto agar plates. This reduces costs, improves results, standardizes the process and increases safety in the Microbiology lab.

**VistaLab Technologies, Inc.**
www.vistalab.com
VistaLab Technologies has revolutionized liquid transfer with the Ovation® Pipette. Ovation has numerous features not found in other pipettes that boost efficiency and complement a unique ergonomic design. A variety of models, with basic to sophisticated capabilities, are available for liquid handling needs from 0.2µL to 10mL.

**W. W. Norton**
http://books.wwnorton.com
The oldest and largest publishing house owned wholly by its employees, W. W. Norton, Inc. publishes about 400 trade, college, and professional titles each year.

**Wako Chemicals USA, Inc.**
www.wakopyrostar.com
Wako’s exclusive PYROSTAR ES-F lysate provides the only pre-formulated endotoxin-specific, dual-purpose LAL reagent available in the market today. To complement their limulus amebocyte lysate (LAL) reagent product line, Wako also offers accessories and instrumentation for use in the different endotoxin detection assays to support every facet of your testing needs.
**Wiley**

www.wiley.com

Wiley is a global provider of knowledge and knowledge-enabled services that improve outcomes in areas of research, professional practice, and education.

**Wockhardt USA**

www.wockhardtusa.com

Wockhardt is a discovery-based biopharmaceutical company which has established an innovative clinical stage program focused on novel antibacterials. Wockhardt has pioneered the concept of the beta lactamase enhancer to surmount the urgent challenge of MDR gram negative infections. Five of Wockhardt’s NCES have been granted QIDP status in the US.

**Wolters Kluwer Health**

www.iww.com

Wolters Kluwer Health is a leading global provider of information and point of care solutions for the healthcare industry. Our solutions are designed to help professionals build clinical competency and improve practice so they can make important decisions on patient care. We offer evidence-based medical, nursing and allied health content and clinical decision support tools; drug information and patient surveillance; structured documentation and coding; precision medical research tools; and continuing medical education solutions. Our leading product brands include Audio-Digest, Lippincott, Ovid®, UpToDate®, and others.

**Zymo Research Corp.**

www.zymoresearch.com

Since 1994, Zymo Research has been offering innovative, quality and easy-to-use tools for nucleic acid purification and Epigenetics research. Our innovative products and services simplify complex processes while at the same time improving results. All of our products are supported by unparalleled customer support. Zymo Research – Innovation. Quality. Simplicity.
We are committed to fighting bacterial infections and resistant organisms

Here today
Here tomorrow

Please visit The Medicines Company Booth 1819
BREAK FREE FROM THE CONSTRAINTS OF ONE-BY-ONE TESTING.

The cobas® 4800 streamlines high-volume HAI testing. Consider it a liberation movement.

Start breaking the chains for your team. Visit microbiology.roche.com.

The cobas® 4800