

Welcome to the ARLG Newsletter! Here, you will receive important updates from ARLG regarding recent events, grants, publications, and the committees that help us work toward our mission: to prioritize, design, and execute clinical research that will impact the prevention, diagnosis, and treatment of infections caused by antibiotic-resistant bacteria.

#### **Get Involved with ARLG**

ARLG continuously accepts proposals for clinical studies designed to prevent, diagnose, treat, or eradicate antibiotic-resistant bacterial pathogens. We also award grants and fellowships to qualified investigators. If you are interested in getting involved with ARLG, apply now or contact us for more information.

Submit a Proposal

Contact Us

### **News**

## ARLG Spotlight - Michael Woodworth, MD, MSc, Emory University Silver Pear Mentoring Award Recipient



Michael Woodworth, MD, MSc, Vice-Chair of ARLG Mentoring Committee and former ARLG fellow, has been honored with the Shanthi V. Sitaraman Silver Pear Mentoring Award for Research by Emory University School of Medicine. This accolade recognizes his exceptional mentorship to early-career mentees, particularly Ahmed Babiker, an ARLG Early Faculty Seedling Award recipient. Dr. Woodworth's research focuses on microbiome therapeutics, such as fecal microbiota transplantation (FMT), for eradicating multi-drug resistant organisms in the intestines.

## Tori Kinamon Featured in BBC StoryWorks' Film "Race Against Resistance"

ARLG Innovations Working Group Member Tori Kinamon is featured in the BBC StoryWorks film "Race Against Resistance: The Life and Death Struggle to Save Antibiotics." The documentary was funded by the AMR Action Fund with support from Shionogi, Pfizer, and MSD. It addresses the global threat of antibacterial resistance (AR) and includes personal stories of AR survivors, highlighting Kinamon's own journey from MRSA survivor to MD Candidate and infectious diseases researcher.

Read more

## **DOTS Study Hits Enrollment Milestone**

The Dalbavancin as an Option for Treatment of *Staphylococcus aureus* Bacteremia (DOTS) Study has successfully enrolled 200 participants with *S. aureus* bloodstream infections, meeting its enrollment target in July 2023. *S. aureus* infections are often lifethreatening and antibiotic-resistant, typically requiring a prolonged IV antibiotic treatment. Dalbavancin, a long-acting antibiotic, offers a unique treatment approach, administered as two IV doses one week apart, eliminating the need for central catheters. The study, led by ARLG Primary Investigator Thomas Holland, MD, aims to evaluate Dalbavancin's safety and efficacy in treating *S. aureus* bacteremia, potentially transforming its management.

Read More

# ARLG Partners with Biomeme on Study of New Diagnostic Tool to Tackle AR

Biomeme on the RADICAL 510(k) Study. This study aims to assess Biomeme's new test that detects bacterial or viral infections by analyzing host gene expression in blood. Quick and accurate diagnosis can help physicians tailor effective treatment plans, reducing unnecessary antibiotic use and improving stewardship. ARLG Primary Investigators Gayani Tillekeratne, MD and Thomas Holland, MD are leading the study, and this collaboration aims to enhance diagnostic tools in the fight against antibacterial resistance.

Read more

## **SHREC Study Summary Now Available**



A lay summary of results for the Study of Highly Resistant *Escherichia Coli* (SHREC) is now available! SHREC compared the clinical outcomes of patients with *E. coli* blood infections that were susceptible to the antibiotic ceftriaxone to those of patients with ceftriaxone-resistant *E. coli* infections. *E. coli* infections are one of the most common types of bacterial infections found in the bloodstream, and ceftriaxone is commonly used to treat such infections. The number of *E. coli* bloodstream infections that are resistant to ceftriaxone in the United States has grown.

Clinical outcomes of 300 adult and pediatric participants across the U.S. were described in the study using the Desirability of Outcome Ranking (DOOR) method, where outcomes ranged from alive with no events to death within 30 days after diagnosis. Results showed that participants with ceftriaxone-resistant *E. coli* infections had overall

worse clinical outcomes than participants with ceftriaxone-susceptible infections. Participants with ceftriaxone-resistant *E. coli* infections tended to be less healthy at the onset of the study though, which is thought to be the primary reason for the worse outcomes. These findings indicate that being infected with a ceftriaxone-resistant *E. coli* may impact quality of life more so than infection with ceftriaxone-susceptible *E. coli*.

**Read More** 

# IDWeek 2023: Featured ARLG Sessions and Posters

It's that time of year again! IDWeek 2023 is here and many of ARLG's top leaders and experts are featured, discussing the latest AR topics.



Don't miss Sara Cosgrove, MD, ARLG member and Director of the Johns Hopkins Hospital Department of Antimicrobial Stewardship Program, as the SHEA Lectureship featured speaker Oct. 13 from 4:45 – 6:00 p.m. The SHEA Lectureship Award is given in recognition of a senior investigator's career contributions to healthcare epidemiology and infection prevention and control.

Whether you are attending the event virtually or in person, use our guide of sessions and posters to plan ahead.

Learn more



### **Study Milestones**

View recent ARLG study updates.

FAST	Fast Antibiotic Susceptibility Testing for gram-negative bacteremia	Site Start-up
OPTIMIZE-GNI	Optimization of Beta-lactam Dosing in Critically-III Patients with Suspected or Documented Antimicrobial Resistant Gram-Negative Infections with Cystatin C	Protocol Development
RADICAL 510(k)	Rapid Diagnostic in Categor izing Acute Lung Infections	Protocol Finalized-Start-up
REPROCESS	Racial DisparitiEs in CarbaPenem-Resistant	Study Design

Bacteria: EpidemiOlogy and OutComEs of US PatientS

**ESCAPED** 

Emerging Staphylococcus aureus and Current Antimicrobial Patterns in Emergency Departments Study Design

**DARMA** 

Disparities
in Antibacterial Resistance:
A Series of Meta-Analyses

Study Design

Go to the ARLG Studies page for more milestones and updates!

Learn More



#### **Recent Publications**

View the following recent ARLG publications.

Boutzoukas AE, Komarow L, Chen L, Hanson B, Kanj SS, Liu Z, Salcedo Mendoza S,Ordonez K, Wang M, Paterson DL, Evans S, Ge L, Giri A, Hill C, Baum K, Bonomo R, Kreiswirth B, Patel R, Arias CA, Chambers HF, Fowler VG Jr., van Duin D; on behalf of the Antibacterial Resistance Leadership Group and Multi-Drug Resistant Organism Network Investigators. International epidemiology of carbapenemase-producing Escherichia coli isolates. Clin Infect Dis. 2023 Aug 22;77(4):499-509. doi: 10.1093/cid/ciad288.

Kinamon T, Gopinath R, Waack U, Needles M, Rubin D, Collyar D, Doernberg SB, Evans S, Hamasaki T, Holland TL, Howard-Anderson J, Chambers H, Fowler VG Jr., Nambiar S, Kim P, Boucher HW. Exploration of a Potential DOOR Endpoint for Complicated Intra-Abdominal Infections Using Nine Registrational Trials for Antibacterial Drugs. Clin Infect Dis. 2023 Aug 22;77(4):649-656. doi: 10.1093/cid/ciad239.

Rouphael N, Winokur P, Keefer MC, Traenkner J, Drobeniuc A, Doi Y, Munsiff S, Fowler VG, Evans S, Oler RE, Tuyishimire B, Lee M, Ghazaryan V, Chambers HF; for the DMID 15-0045 Study Group. Daily Fosfomycin Use for Complicated Urinary Tract Infections. mBio. 2023 Sep 12;e0167723. doi: 10.1128/mbio.01677-23. Online ahead of print.

Cuello L, Alvarez Otero J, Greenwood-Quaintance KE, Hanson B, Chen L, van Duin D, Komarow L, Ge L, Lancaster ZD, Gordy GG, Schuetz AN, Patel R. Poor Sensitivity of the MALDI Biotyper(r) MBT Subtyping Module for Detection of Klebsiella pneumoniae Carbapenemase (KPC) in Klebsiella species. Antibiotics. 2023 Sep 20;12(9):1465. doi: 10.3390/antibiotics12091465.

Wang M, Ge L, Chen L, Komarow L, Hanson B, Reyes J, Cober E, Alenazi T, Zong Z, Xie Q, Liu Z, Li L, Yu Y, Gao H, Kanj SS, Figueroa J, Herc E, Cordova E, Weston G, Tambyah PA, Garcia-Diaz J, Kaye KS, Dhar S, Munita JM, Salata RA, Vilchez S, Stryjewski ME, Villegas Botero MV, Iovleva A, Evans S, Baum K, Hill C, Kreiswirth BN, Patel R, Paterson DL, Arias CA, Bonomo RA, Chambers HF, Fowler VG Jr., Satlin MJ, van Duin D, Doi Y, Mutli-Drug Resistant Organism Network Investigators. Clinical Impact of Carbapenem-Resistant Acinetobacter baumannii Infection: A Snapshot from an International Cohort. Clin Infect Dis. 2023 Sep 20;ciad556. doi: 10.1093/cid/ciad556. Online ahead of print.

Howard-Anderson J, Hamasaki T, Dai W, Collyar D, Rubin D, Nambiar S, Kinamon T,

Leister-Tebbe H, Hill C, Geres H, Holland TL, Doernberg SB, Chambers HF, Fowler Jr. VG, Evans SR, Boucher HW. Moving Beyond Mortality: Development and Application of a Desirability of Outcome Ranking (DOOR) Endpoint for Hospital-Acquired Bacterial Pneumonia and Ventilator Associated Bacterial Pneumonia. Clin Infect Dis. 2023 Sep 22;ciad576. doi: 10.1093/cid/ciad576. Online ahead of print.

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