

AGENDA: “Overcoming antimicrobial resistance: From a One Health Perspective”

Shirliff Biofilm Day – Friday, June 13, 2025

8:00 – 9:00 AM **Registration**
Drexel University
Geary Auditorium in the Drexel’s New College Building

9:00 – 9:10 AM **Opening remarks and Foundation Update**

Session 1: Host-pathogen interactions

9:10 – 9:50 AM **Dr. Cagla Tukul (Keynote speaker), PhD, Temple University**
TBD

9:50 – 10:20 AM **Dr. Kendra Rumbaugh, PhD, Texas Tech University Health Sciences Center**
Bacterial and host response to biofilm dispersal in wound infections

10:20 – 10:40 AM **Dr. Nathan Archer, PhD, Johns Hopkins School of Medicine**
Staphylococcus aureus in skin inflammation

10:40 – 10:55 AM *BREAK*

Session 2: Mechanisms of antimicrobial resistance

10:55 – 11:25 PM **Dr. Paul Dunman, University of Rochester**
TBD

11:25 – 11:55 AM **Dr. Garth Ehrlich, Drexel University**
TBD

11:55 – 12:15 PM **Dr. Kim Davis, PhD, Johns Hopkins Bloomberg School of Public Health**
Studying antibiotic persistence in *Yersinia* and *S. aureus* models of infection

12:15 – 1:15 PM *Boxed Lunch*

Session 3: Diagnostic and therapeutic modalities

- 1:15 – 1:55 PM **Dr. Steve Goodman (Keynote Speaker), Nationwide Children’s**
TBD
- 1:55 – 2:25 PM **Dr. Michel Koo, University of Pennsylvania**
Unveiling Biofilm Microbiomes and Therapies: From Real-Time
Imaging to Nanoengineering
- 2:25 – 2:45 PM **Dr. Josh Lieberman, University of Washington**
Current Landscape of Clinical Molecular Diagnostics for
Endocarditis
- 2:45 – 3:00 PM *BREAK*

Session 4: Host and Microbial Metabolism

- 3:00 – 3:30 PM **Dr. Tammy Kielian, PhD, University of Nebraska Medical
Center**
Staphylococcus aureus biofilm programs leukocyte metabolism to
promote infection persistence
- 3:30 – 3:50 PM **Dr. Jeffrey Freiberg, MD, PhD, Vanderbilt University**
Arginine metabolism influences antibiotic tolerance in
Staphylococcus aureus Biofilms

Session 5: Fungal Biofilms

- 3:50 – 4:20 PM **Dr. Brian Peters, University of Tennessee Health Science
Center**
Vaginal fungal biofilms: novel therapeutic approaches to manage
Candida albicans infection
- 4:20 – 4:40 PM **Dr. Kristie Brao, MD, PhD, Harvard Medical School**
Evaluation of Invasive Candidiasis at Autopsy
- 4:40 – 4:45 PM **Closing Remarks** (Drs. Garth Ehrlich and Nate Archer)
- 4:45 PM Close of Meeting
- 5:00 - ?? PM** Happy Hour @ Local Pub (not a part of the official meeting)