

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

**Shirliff Biofilm Day – Friday, June 13, 2025**

<b>8:00 – 9:00 AM</b>	<b>Registration</b> Drexel University Geary Auditorium in the Drexel’s New College Building
<b>9:00 – 9:10 AM</b>	<b>Opening remarks and Foundation Update</b>

Session 1: Host-pathogen interactions – Session Chair: DJ Hall, Drexel University

<b>9:10 – 9:50 AM</b>	<b>Dr. Cagla Tukel (Keynote speaker), PhD, Temple University</b> TBD
<b>9:50 – 10:20 AM</b>	<b>Dr. Kendra Rumbaugh, PhD, Texas Tech University Health Sciences Center</b> Bacterial and host response to biofilm dispersal in wound infections
<b>10:20 – 10:40 AM</b>	<b>Dr. Nathan Archer, PhD, Johns Hopkins School of Medicine</b> <i>Staphylococcus aureus</i> in skin inflammation
<b>10:40 – 10:55 AM</b>	<b>BREAK</b>

Session 2: Mechanisms of antimicrobial resistance – Session Chair: Jeffrey Freiberg, Vanderbilt

<b>10:55 – 11:25 PM</b>	<b>Dr. Paul Dunman, University of Rochester</b> TBD
<b>11:25 – 11:55 AM</b>	<b>Dr. Garth Ehrlich, Drexel University</b> TBD
<b>11:55 – 12:15 PM</b>	<b>Dr. Kim Davis, PhD, Johns Hopkins Bloomberg School of Public Health</b> Studying antibiotic persistence in <i>Yersinia</i> and <i>S. aureus</i> models of infection
<b>12:15 – 1:15 PM</b>	<b>Boxed Lunch</b>

Session 3: Diagnostic and therapeutic modalities – Session Chair: Kristie Brao, Harvard

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

Session 4: Host and Microbial Metabolism – Session Chair: Josh Lieberman, U of Washington

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

Session 5: Fungal Biofilms – Session Chair: Nathan Archer, Johns Hopkins

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| 3:50 – 4:20 PM | <b>Dr. Brian Peters, University of Tennessee Health Science Center</b><br>Vaginal fungal biofilms: novel therapeutic approaches to manage <i>Candida albicans</i> infection |
| 4:20 – 4:40 PM | <b>Dr. Kristie Brao, MD, PhD, Harvard Medical School</b><br>Evaluation of Invasive Candidiasis at Autopsy   |
| 4:40 – 4:45 PM | <b>Closing Remarks</b> (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)   |