

AGENDA: “Building your biofilm community”

Shirliff Biofilm Day – March 31, 2023

8:00 – 9.00 AM

Registration

University of Maryland College Park,
A. James Clark Hall, Zupnick Forum (Room 1101)

9.00 - 9.10 AM

Opening remarks (Drs. James Kaper and Kevin McIver)

Session 1: Biofilms and academia *Session Chair: Dr. Jan Harro*

9.10-9.40 AM

Dr. Brian Peters, The University of Tennessee Health Science Center, College of Pharmacy

Partners in slime: mechanisms underpinning *Candida-Staph* infectious synergism

9.40-10.10 AM

Dr. Erika Espinosa, Center for Biofilm Engineering, Montana State University

The Good, the Bad, and the Unknown: Tales of Fungal Biofilms

10.10-10.40 AM

Dr. Mandy Oglesby, University of Maryland School of Pharmacy

Iron and heme regulation in *Pseudomonas aeruginosa* static communities

10.40-11.10 AM

Dr. Nate Archer, Department of Dermatology, Johns Hopkins School of Medicine

Immunity to *Staphylococcus aureus* skin infections: new insights into the role of neutrophils

11.10-11.30 AM

BREAK

Session 2: Biofilms seen from a government perspective *Session Chair: Dr. Jeff Freiberg*

11:30 – 12.00 PM

Dr. Kristi Frank, Uniformed Services University of the Health Sciences

Using Glycoside Hydrolases With Antibiotics or bacteriophage Cocktails to Disperse and Kill *Enterococcus faecalis* Biofilms

12.00 - 12.30 PM

Dr. Rebecca Mickol, Naval Research Laboratory

Marine Microbial Biofilms for Biomanufacturing Processes

12.30- 1.30 PM

Boxed Lunch

1.00 -1.30 PM

Informal biofilm Career Discussions w/ speakers

Session 3: Industrial and Entrepreneurial biofilms *Session Chair: Dr. Brian Peters*

- 1.30-2.10 PM **Dr. Judith Kikhney, Charité – Universitätsmedizin Berlin, Germany**
Harnessing spatial resolution in medical microbiology
- 2.10-2.40 PM **Dr. Yoann Le Breton, Navy Medical Research Center**
A pipeline for Early Development and Preclinical Evaluation of Novel Antimicrobials to Combat Wound Infections
- 2.40-2.55 PM *BREAK*

Session 4: Biofilms in a clinical setting *Session Chair: Dr. Nate Archer*

- 2.55 – 3.25 PM **Dr. Jeff Freiberg, Vanderbilt University Medical Center**
Understanding antibiotic treatment failure in *Staphylococcus aureus* biofilms
- 3.25 – 3.45 PM **Nour El Hussein, Department of Cell Biology and Molecular Genetics, University of Maryland**
Pseudomonas aeruginosa in a murine model of catheter-associated urinary tract infection
- 3.45 – 4.15 PM **Dr. Jan Harro, University of Maryland School of Dentistry**
Modeling of polymicrobial infection in the muco-obstructive airway of Scnn1 transgenic mice
- 4.15 – 4.45 PM **Dr. Erin Gloag, Virginia-Maryland College of Veterinary medicine, Virginia Tech**
Relevance of biofilm viscoelasticity to infection
- 4.45 - 5.15 PM **Dr. Donald C. Hall, Jr., Drexel University College of Medicine**
- 5.15-5.20 PM **Closing Remarks** (Drs. Garth Ehrlich and Kevin McIver)
- 5.20 PM Close of Meeting
- 5:30 - ?? PM** Happy Hour @ Looney's Pub?? (not a part of the official meeting)