
Friday, November 3

Registration 12:00 – 4:00

Plenary Session 1: Introduction and Welcome

Chair: Kate Buckley, Auburn University

Opening Remarks 4:00 – 4:15

Keynote Speaker: ASM Distinguished Lecturer 4:15 – 5:15

Joanne Engel, University of California, San Francisco

Bacterial Mimicry of Viruses: How Chlamydia Incs employ SLiMs to Reprogram the Host

Chembilikandy Vipin, University of Alabama at Birmingham 5:15 – 5:30

Impact of choline binding protein-F in Pneumococcal pathogenicity and host tissue damage

Jake Tatum, Auburn University 5:30 – 5:45

Motility is required for pathogenesis of Vibrio diazotrophicus in sea urchin larvae

Olivia Brahms, Auburn University 5:45 – 6:00

Characterization of Murine Cytomegalovirus M72 Interactions with the CCR4-NOT Complex

Opening Reception 6:00 – 7:30

Micro Trivia 7:30 – 9:00

Saturday, November 4

Breakfast 8:15 – 9:00

Plenary Session 2: Microbes and host responses

Chair: Sophie Darch

Mark Liles, Auburn University 9:00 – 9:30

A global survey and disease control of hypervirulent Aeromonas hydrophila in fish

Navdeep Kaur, Auburn University 9:30 – 9:45

Pseudogenes and host specificity in a bacterial plant pathogen

Md. Mohasin, University of Alabama at Birmingham 9:45 – 10:00

Capsule serotype alters PC and CbpA exposure on the bacterial surface impacting pneumococcal adhesion

Rahena Yasmin, University of Alabama at Birmingham 10:00 – 10:15

PspA-mediated aggregation protects Streptococcus pneumoniae against desiccation on fomites

Coffee Break

10:15 – 10:45

Plenary Session 3: The biology of viruses

Chair: Jason Upton

Abdelaal Shehata, Auburn University	10:45 – 11:00
<i>Sequencing the Nucleocapsid of Tomato Spotted Wilt Virus is a Step Towards Understanding the Peanut Breeding Resistance in Alabama</i>	
Brandon Berryhill, Emory University	11:00 – 11:00
<i>Bacteriophage when antibiotics fail: lessons learned from Staphylococcus aureus treatment failure</i>	
Federico Prokopczuk, University of Alabama at Birmingham	11:15 – 11:30
<i>Pf phage mediates intraspecies competition in Pseudomonas aeruginosa</i>	
Ellen Jones, Mercer University School of Medicine	11:30 – 11:45
<i>Outcome of Zaire ebolavirus infection linked to specific proteins in Sierra Leone</i>	
Sandra Scott, Mercer University School of Medicine	11:45 – 12:00
<i>Targeting Herpesvirus DNA Encapsidation Via Disruption of Portal Protein Interactions</i>	

Lunch Break

12:15 – 1:00

Keynote Speaker: ASM Distinguished Lecturer

1:00 – 2:00

Andrew Yurochko, University of Louisiana

Poster Session

2:00 – 4:00

Concurrent Session 4a: Microbial Evolution

Chair: Mark Liles, Auburn University

Terence Crofts, Florida State University	4:15 – 4:30
<i>Functional metagenomic discovery of novel chlorhexidine efflux pumps from across environments</i>	
Brooke Talbot, Emory University	4:30 – 4:45
<i>Metagenome-wide characterization of shared antimicrobial resistance genes in people and lemurs</i>	
Iris Irby, Georgia Institute of Technology	4:45 – 5:00
<i>Mobile genetic elements bridge the gap between clades in Pseudomonas aeruginosa</i>	
Amanpreet Kaur, Auburn University	5:00 – 5:15
<i>Rapid adaptation of a pathogen population in response to climatic fluctuations</i>	
Theresa Gil-Gil, Emory University	5:15 – 5:30
<i>Evolved heteroresistance following long-term exposure to bacteriostatic antibiotics</i>	

Concurrent Session 4b: Clinical and agricultural approaches to microbes

SEB-ASM 2023, Auburn University**Preliminary Schedule**

Allyson Shea, University of South Alabama <i>Uncovering the interplay between patient variables and uropathogen biology</i>	4:15 – 4:30
Emily Cason, University of Georgia <i>Variability in Salmonella prevalence and serovar presence through turkey production highlights food safety challenges</i>	4:30 – 4:45
Reagan Williams, Mercer University School of Medicine <i>Intranasal Povidone Iodine Provides Prophylaxis Against S. Aureus Periprosthetic Joint Infections</i>	4:45 – 5:00
Amber Richards, University of Georgia <i>Processing interventions reduce Salmonella serovar complexity on post-chill chicken carcasses</i>	5:00 – 5:15
Thomas Bagwell, Mercer University School of Medicine <i>Enhancing Antimicrobial Stewardship in Rural Healthcare: Impact of an Educational Intervention</i>	5:15 – 5:30
Plenary Session 5 W. Edward Swords, University of Alabama at Birmingham <i>Cooperative and competitive interactions in cystic fibrosis-related infections.</i>	5:45 – 6:15
Banquet Dinner & Faculty Award Presentation	6:30 – 9:30

Sunday, November 5

Breakfast	8:15 – 9:00
Concurrent Session 5a: Microbial physiology	
Shabarinath Srikumar, Auburn University <i>Identification of the genetic factors that are critically required for the survival of Salmonella Typhimurium in milk</i>	9:00 – 9:15
Cristian Crisan, Emory University School of Medicine <i>Identification of a Stenotrophomonas maltophilia contact-dependent antibacterial toxin</i>	9:15 – 9:30
Mohammad Savari, Ahvaz Jundishapur University of Medical Sciences <i>Antibiotic nano-conjugates: tackling resistance in staphylococcus aureus</i>	9:30 – 9:45
Logan Kavanaugh, Emory University <i>Di-berberine conjugates are potent MexXY-OprM efflux inhibitors in Pseudomonas aeruginosa</i>	9:45 – 10:00
Isaac Estrada, Georgia Institute of technology <i>Bactericidal efficacy of diverse R-pyocins against MDR and XDR Pseudomonas aeruginosa</i>	10:00 – 10:15
Deepak Shantharaj, Auburn University <i>Nanoparticles against Xylella fastidiosa</i>	10:15 – 10:30

Concurrent Session 5b: Microbial Communities

Jason Chen, Emory University	9:00 – 9:15
<i>Symbiont-elicited shifts in host immunity govern a strong priority effect in the assembly of an insect-microbe symbiosis</i>	
Calvin Mackey, Florida State University	9:15 – 9:30
<i>The Role of the Microbiome in Social Isolation Stress and Re-socialization Intervention in a Prairie Vole Model</i>	
Kaylie Hintze, University of Alabama Huntsville	9:30 – 9:45
<i>Analysis of Interbacterial Competition Amongst Lactobacilli Isolated from the Human Urinary Tract</i>	
Kelly Eick, Georgia Institute of Technology	9:45 – 10:00
<i>Neisseria subflava drives colonization resistance against Pseudomonas aeruginosa</i>	
Anuradha Goswami, University of Alabama Birmingham	10:00 – 10:15
<i>Landfills shape the native microbial community and selection for antimicrobial resistance</i>	
Jeffrey Morris, University of Alabama at Birmingham	10:15 – 10:30
<i>Host-specific adaptation of Alteromonas during experimental evolution of phytoplankton cultures</i>	

Coffee Break 10:30 – 11:00

Session 6: Microbial metabolism and biofilms

Claire Bowman, Emory University	11:00 – 11:15
<i>Comparing Growth Rates of Acinetobacter baumannii Phenotypes in Various Carbon Sources</i>	
Tianhan Huang, Auburn University	11:15 – 11:30
<i>Alternative Mechanisms of Prokaryotic Translation Initiation</i>	
James Daubenspeck, University of Alabama at Birmingham	11:30 – 11:45
<i>“Moonlighting”: Expanding the Proteome in Reduced Genome Organisms</i>	
Annalie Harris, Berry College	11:45 – 12:00
<i>Biofilm formation of Streptococcus equi ssp. equi alters antibiotic susceptibility in vitro</i>	
Arul Thason, Georgia Southwestern State University	12:00 – 12:15
<i>Interaction Between Staphylococcus aureus and Staphylococcus epidermidis During Biofilm Formation</i>	
Kristen Dominguez, University of South Florida	12:15 – 12:30
<i>The impact of butyrate on Group B Streptococcus intestinal pathogenesis</i>	

Business Meeting & Student Awards 12:30 – 1:15

Boxed Lunches & Departure 1:15