

# The 104th Annual Southeastern Branch American Society for Microbiology Meeting Microbial Dynamics and Infection

**Saturday, December 1, 2018**

4:30 PM - 5:30 PM Clough Classroom 102	Poster Session II Even Numbered Posters
2	"Isolation, Characterization and Complete Genome Sequence of Phi 176: A Bacteriophage of <i>Pseudomonas aeruginosa</i> ATCC 27853" Ashraf Amshaqn, Department of Biology, Jacksonville State University
4	"Diversity and Prevalence of Antibiotic Resistance Genes in Plant Root Microbiomes" Mentewab Ayalew, Department of Biology, Spelman College
6	"Antimicrobial Properties of the Human Galectin-9 Domains Depend on the Affinity of Glycan-Protein Binding" Anna Blenda, Department of Biomedical Sciences, USC School of Medicine Greenville
8	"Examining Fecal Sludge Management through a Sanitary Survey at Compounds Enrolled in the Maputo Sanitation Study in Mozambique" Drew Capone, School of Civil & Environmental Engineering, Georgia Institute of Technology
10	"Characterization of Novel, Active Type Six Secretion System Clusters in <i>Vibrio cholerae</i> " Cristian Crisan, School of Biological Sciences, Georgia Institute of Technology
12	"Exploring Antimicrobial Tolerance and Social Dynamics of Bacterial Aggregates in the Cystic Fibrosis Lung" Sophie Darch, School of Biological Sciences, Georgia Institute of Technology
14	"Mechanistic Insights into Regulatory Protein E2's Ability to Induce Senescence and Cell Death in Cervical Cancer Cells" Hope Didier, Department of Molecular and Cellular Biology Kennesaw State University
16	"Exploring the Association of Genome, Diet, and Oral Microbiome in Healthy Young Adults" Jennifer Drew, Department of Microbiology and Cell Science, University of Florida
18	"Newly-isolated T7-like and SP6-like Bacteriophages of <i>Sinorhizobium meliloti</i> Share Features with <i>Rhizobium etli</i> and <i>Mesorhizobium loti</i> Phages" Gabrielle Fisher, Department of Biological Science, Florida State University
20	"Altered Expression of Genes Required for Biofilm Formation in the Gastrointestinal Pathogen <i>Campylobacter jejuni</i> " Emily Hammond, Department of Medicine, Medical College of Georgia
22	"Integrative Longitudinal Analysis of Metabolic Phenotype and Gut Microbiota Changes During the Development of Obesity" Keah Higgins and Haley Hallowell, Department of Biological Sciences, Auburn University
24	" <i>In silico</i> Modeling Using Window-based Single Nucleotide Variant Similarity (WSS) to Identify Proportion of Donor and Recipient Microbe Strains Following Fecal Transplant" Hyunmin Koo, Departments of Genetics Biology and Cell, Developmental and Integrative Biology, University of Alabama at Birmingham
26	"Sympatric and Allopatric Polymicrobial Interactions Alter Pathogen Gene Essentiality" Gina Lewin, School of Biological Sciences, Georgia Institute of Technology
28	"Characterizing Interactions between Norovirus and a Commensal Bacterium" Jasmine Madrigal, Department of Microbiology and Cell Science, University of Florida
30	"Discovery of a Stress Response that Monitors Lipoprotein Trafficking to the Outer Membrane" Kerrie May, Department of Microbiology and Immunology, Emory University School of Medicine

32	"Cell-Penetrating Peptide-Mediated Delivery of CRISPR/Cas System" Maria Mbugua, Department of Chemistry and Biochemistry, Kennesaw State University
34	"Tracking of Human Fecal Microbe Strains Transplanted into Mice Reveals the Necessity to Abrogate the Gut Microbe Community Colonization Resistance" Braden McFarland, Department of Cell, Developmental and Integrative Biology, University of Alabama at Birmingham
36	"Impact of Host Genotype on <i>Pseudomonas aeruginosa</i> Fitness Requirements During Chronic Wound Infection" Kelly Michie, School of Biological Sciences, Georgia Institute of Technology
38	"Single-celled Marine Eukaryotes May Harbor One of the Ancient G protein-coupled Receptor Signaling Systems" Nazia Mojib, School of Biological Sciences, Georgia Institute of Technology
40	"Population Genomic and Evolutionary Studies of Phage Resistance and Host Range in <i>Staphylococcus aureus</i> " Jon Moller, Department of Medicine, Emory University School of Medicine
42	"Nudibranch Microbiomes as Rich Sources of Bioactive Natural Products" Samar Moustafa, Department of Botany and Microbiology, Suez University
44	"Investigating Novel Regulatory Mechanisms of Type VI Secretion System in <i>Vibrio cholerae</i> " Michael Ng, School of Biological Sciences, Georgia Institute of Technology
46	"The Killing Efficacy of the Type VI Secretion System in <i>Vibrio cholerae</i> Varies in Response to Target Species and Medium Conditions" Holly Nichols, School of Biological Sciences, Georgia Institute of Technology
48	"Determining the RNA-binding Site of an Important Regulatory Protein in <i>Campylobacter jejuni</i> " Harry Owen, Department of Medicine, Medical College of Georgia at Augusta University
50	"A LysR-Type Transcriptional Regulator Impacts Multiple Phenotypes in <i>Acinetobacter baumannii</i> " Aimee Paulk Tierney, Department of Microbiology and Immunology, Emory University School of Medicine
52	" <i>Staphylococcus aureus</i> Viewed from the Perspective of 40,000+ Genomes" Robert Petit III, Department of Medicine, Emory University School of Medicine
54	"Investigating the Role of <i>Vibrio cholerae</i> Type VI Secretion System in Altering Fish Gut Microbial Communities" Vishnu Raghuram, School of Biological Sciences, Georgia Institute of Technology
56	"Collective Decision-Making in Bacteria, How do Microbes Respond to Increasing Cell Densities and Why?" Jennifer Rattray, School of Biological Sciences, Georgia Institute of Technology
58	"Phenotypic Diversity of <i>Staphylococcus aureus</i> Isolates in the Cystic Fibrosis Lung" Angelica Rodriguez, School of Biological Sciences, Georgia Institute of Technology
60	"Fractionation of Enriched <i>Castanea sativa</i> Leaf Extract 224C-F2 Yields <i>Staphylococcus aureus</i> Quorum Quenchers with Enhanced Bioactivity" Akram Salam, Molecular and Systems Pharmacology, Emory University
62	"Qualitative Method to Address Trophic Transfer Between Phytoplankton and Bacteria" William Schroer, Department of Marine Sciences, University of Georgia
64	"Characterizing the Microbial Community of Atmospheric Saharan Dust in the Florida Keys" Roland Seim, Department of Environmental Health Science, University of Georgia
66	"Host Immune Function Contributes to Ploidy Dynamics of an Opportunistic Fungal Pathogen" Amanda Shurzinske, Department of Biology, Emory University
68	"Designer Cell-Penetrating Peptides for the Treatment of Cervical Cancer" Lauren Slaughter, Department of Chemistry and Biochemistry, Kennesaw State University
70	"Analysis of the Composition of Brazilian Peppertree Based on Anti-virulence Activity Against <i>Staphylococcus aureus</i> " Huaqiao Tang, Department of Dermatology and Human Health, Emory University School of Medicine
72	"Making Connections: The DNA Regulator Lrp Chats with the <i>Pseudomonas</i> Quorum Sensing Network" Matthew Taylor, Department of Molecular and Cellular Biology, Kennesaw State University
74	"Transcription Factor Discovery by the Selection Method REPSA" Michael Van Dyke, Department of Chemistry and Biochemistry, Kennesaw State University

76	"The Maternal Effect Gene <i>Wds</i> Controls <i>Wolbachia</i> Titer in <i>Nasonia</i> " Teddy van Opstal, Department of Biological Sciences, Vanderbilt University
78	"The Impact of Varying pH Conditions on <i>Clostridioides difficile</i> Growth, Physiology and Adaptation" Daniela Wetzel, Department of Microbiology and Immunology, Emory University School of Medicine
80	"Cooperative Antibiotic Resistance and Multistable Population Dynamics Within a <i>C. elegans</i> Gut Microbiome" Megan Woods, Department of Biology, Emory University