

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

**Saturday, December 1, 2018**

3:30 PM - 4:30 PM Clough Classroom 102	Poster Session I Odd Numbered Posters
1	"Phosphate-Dependent Transcriptional Regulation in <i>Methanococcus maripaludis</i> " Taiwo Akinyemi, Department of Microbiology, University of Georgia
3	"Isolation and Whole-Genome Sequencing of Commensal <i>Escherichia coli</i> from Healthy Human Stool" Brooke Aspinwall, Centers for Disease Control and Prevention, OID/NCEZID/DFWED/EDLB
5	"Epstein-Barr Virus Latent Membrane Protein-1 Targets the SUMO-Activating Enzyme during Latent Infections" Shakti Biswas, Division of Basic Medical Sciences, Mercer University School of Medicine
7	"Predictive Metabolomic Modeling of Gastrointestinal Bacteria Using Pyrosequencing Data from Cope's Grey Treefrog ( <i>Hyla chrysoscelis</i> )" Benjie Blair, Department of Biology, Jacksonville State University
9	"Metagenomic Analysis of the Response of Coastal Microbial communities to Extreme Weather Perturbations" Genevieve Brandt, Bioinformatics, Georgia Institute of Technology
11	"A Comparison of HIV and SIV In Vitro Assembly" Arianna Broad, Department of Biological Sciences, Florida State University
13	"Physiological adaptation and Molecular Innovation in <i>Pseudomonas aeruginosa</i> " Juan Castro, School of Biological Sciences, Georgia Institute of Technology
15	"Avirulins, a Novel Class of HIV-1 Reverse Transcriptase Inhibitors effective in the Female Reproductive Tract Mucosa" Michelle Cherne, Burnett School of Biological Sciences, University of Central Florida
17	"Biphasic Response to Stx2 Isoforms Results from Relatively Weak Binding to the Target Cell" Patrick Cherubin, Burnett School of Biological Sciences, University of Central Florida
19	"Inferring interaction networks from time-series in virus-microbe communities" Ashley Coenen, School of Physics, Georgia Institute of Technology
21	"Impact of Seasonal and Host-Related Factors on the Gut Microbiota of Wild Shrews" Katelyn Cranmer, Department of Biological Sciences, Georgia Southern University
23	"Year-round Metagenomic Characterization of Airborne Microbes in the Air of Metro Atlanta" Lizbeth Dávila Santiago, School of Biological Sciences, Georgia Institute of Technology
25	"The Effects of Spatial Structure on the Interaction between a Unicellular Photosynthetic Microbe and Flavobacterium" Aditya Devarakonda, School of Biological Sciences, Georgia Institute of Technology
27	"Investigation of the Factors that Regulate Spo0A Activity in <i>Clostridioides difficile</i> " Mike DiCandia, Department of Microbiology and Immunology, Emory University School of Medicine
29	"Using Cell-Penetrating Peptides to Deliver Signal Altering Bacterial Effectors to Mammalian Cells" Luke Dickson, Department of Molecular & Cellular Biology, Kennesaw State University
31	"Temperature Effect on Quorum Sensing in <i>Aeromonas hydrophila</i> " Dylan Dugan, College of Science and Mathematics, Kennesaw State University

33	"Characterization of Protoporphyrinogen IX Oxidase (PPO) in an Intracellular Protozoan Pathogen, <i>Toxoplasma gondii</i> " Katherine Floyd, Department of Biological Sciences, Clemson University
35	"Botulinum toxin genes identified by whole genome sequencing" Victoria Foltz, National Botulism & Enteric Toxin, Centers for Disease Control and Prevention
37	"Intraspecies Diversity in Clinical Populations of <i>Pseudomonas aeruginosa</i> and the Impact on Antibiotic Resistance" Madeline Gray, School of Biological Sciences, Georgia Institute of Technology
39	"Novel and Universal Vaccine Against Bordetella Species" Katie Howard, Department of Infectious Diseases, University of Georgia
41	"Metabolic Cost Associated with Mounting an Immune Response to Systemic Infection of <i>Listeria monocytogenes</i> " Robert Johnson, Department of Biology Sciences, Auburn University
43	"Parasite-Induced Embryonic Lethality Increases with Grandmother Age in <i>Drosophila melanogaster</i> " Emily Layton, Department of Biological Sciences, Vanderbilt University
45	"Microbial community-wide response to anthropogenic perturbations in an urban river system, Chattahoochee River (Atlanta, GA)" Blake Lindner, School of Civil and Environmental Engineering, Georgia Institute of Technology
47	" <i>Pseudomonas aeruginosa</i> Actively Inhibits Predation by <i>Myxococcus xanthus</i> " Maya Maarouf, College of Science and Mathematics, Kennesaw State University
49	"Targeting Sumoylation Processes During Latent EBV Infections With Glycyrrhizic Acid" Vy Nguyen, Division of Basic Medical Sciences, Mercer University School of Medicine
51	"Understanding the Function of LMP1 CTAR3 in EBV-associated Lymphomas" Tabithia Ross, Biomedical Science Department, Mercer University School of Medicine
53	"Bugs and Drugs: Infection as an Adverse Event of Pharmaceuticals" Raedeen Russell, Department of Microbiology and Immunology, Emory University School of Medicine
55	" <i>In vitro</i> modeling tissue-specific Group A <i>Streptococcus</i> host interactions" Jenna Sands, Department of Microbiology and Immunology, Emory University School of Medicine
57	"Genetic Basis of Microbial Success During Marine Microbiome Assembly" Jeremy Schreier, Department of Marine Sciences, University of Georgia
59	"Spatiotemporal Dynamics of Phage-Biofilm Interactions" Hemaa Selvakumar, School of Physics, Georgia Institute of Technology
61	"A Prophage Gene Rescues Bacterial-induced Infertility in <i>Drosophila melanogaster</i> " Dylan Shropshire, Department of Biological Sciences, Vanderbilt University
63	"Planetary Protection for the Europa Lander Mission" Morgan Sisk, College of Sciences and Mathematics, Auburn University
65	"The Response of Microbially-mediated Organic Matter Decomposition to Warming in Peatlands" Tianze Song, School of Biological Sciences, Georgia Institute of Technology
67	"Understanding the Activity of a Hyaluronidase Produced by <i>Aeromonas hydrophila</i> " Monica Sowder, Department of Molecular and Cellular Biology, Kennesaw State University
69	"Characterization of a Putative Fatty Acid Uptake Pathway in <i>Enterococcus faecalis</i> " Rachel Steele, School of Genome Science and Technology, University of Tennessee
71	"GWAS of Delta Toxin Production in <i>S. aureus</i> " Michelle Su, Department of Medicine, Emory University School of Medicine
73	"The Ortholog of the Chloroquine Resistance Transporter Plays a Key Role in Maintaining the Integrity of the Endolysosomal System in <i>Toxoplasma gondii</i> " Brock Thornton, Department of Biological Sciences, Clemson University
75	"Modulation of stickland metabolism by the host antimicrobial peptide LL-37 in <i>Clostridioides difficile</i> " Germán Vargas, Department of Microbiology and Immunology, Emory University School of Medicine

77	"Mutation of the Gene BCAL0380 in <i>Burkholderia cenocepacia</i> Strain J2315 is Associated with Increased Growth Rate" Katie Wendorf, Department of Pediatrics, Emory University School of Medicine
79	"Role of Interleukin-6 in Restriction of Group A <i>Streptococcal</i> Disease" Shyra Wilde, Department of Microbiology and Immunology, Emory University School of Medicine
81	"Temporal dynamics of <i>P. aeruginosa</i> aggregates during exposure to antimicrobial therapies" Mengshi Zhang, School of Biological Sciences, Georgia Institute of Technology