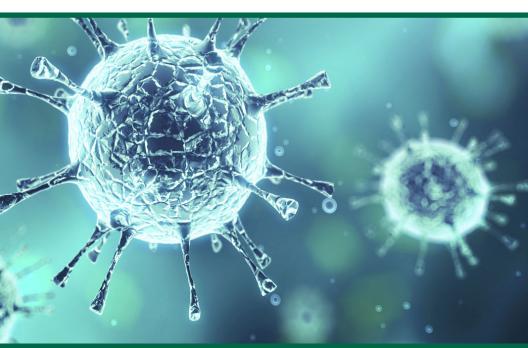


The 103rd Annual Southeastern Branch American Society for Microbiology Meeting Antimicrobial Resistance Program



November 10-12, 2017 Hilton St. Petersburg Bayfront, FL Conference Organizer: Dr. Lindsey Shaw, University of South Florida



4:00 - 5:30 P.M. Grand Bay South Ballroom	Education Session (By Invitation) Dr. Johnny El Rady, University of South Florida
	<i>Confessions of a microbiology educator</i> Dr. Johnny El Rady, University of South Florida
	In the classroom 'one size does not fit all': Exploring elasticity of the classroom experience Dr. Shannon Ulrich, St. Petersburg College
	Student to scientist: Effects of using art as a platform for discovery in a microbiology lab class Sarah Adkins, University of Alabama-Birmingham
	Can a microbiology lab be taught online? (Is this guy crazy or what?)
	Dr. John Bacheller, Hillsborough Community College
6:00 - 7:00 P.M. Grand Bay South Ballroom	Keynote Address Dr. Jody Harwood, University of South Florida
	Antibiotic resistance in the environment: A work in progress
7:00 - 8:00 P.M.	Reception

Lobby II

8:30 - 10:00 A.M.Metabolism (By Invitation)St. Petersburg IIIDr. Kelly Rice, University of FloridaNew archaeal and bacterial players reveal
exciting new insights into marine and
terrestrial nitrogen cycleDr. Willm Martens-Habbena, University of Florida
Ft. Lauderdale Research & Education CenterManganese acquisition is essential for the virulence
of Enterococcus faecalis
Dr. Jose Lemos, University of Florida

Regulation of nitric oxide synthase (NOS) and its interplay with S. aureus metabolism Kimberly James, University of Florida

8:30 - 10:00 A.M. Grand Bay South Ballroom

Antimicrobial Therapeutics and Resistance I Rahmy Tawfik and Jessie Adams, University of South Florida

Translational tools for diagnostics and in vivo drug testing for non-tuberculous mycobacteria Hillary Bengtson, University of Central Florida

Next-generation sequencing analysis of mycobacteria resistant to fluoroquinophenoxazine compound Pamela Garcia, Florida International University

Bis(pyrrolide-imine) gold(III) macrocycles and chelates: Repurposed anticancer compounds become a novel class of antimicrobials targeting mycobacterium tuberculosis and mycobacterium abscessus Rashmi Gupta, University of Central Florida

Kaolin products as prospective tools for the sorption of biofilm-forming bacteria Terrell Johnson, Georgia College and State University

Exploiting phenotypic plasticity to unlock cryptic metabolic pathways in actinobacteria Haider Manzer, University of South Florida

	Discovering novel tuberculosis drugs by exploiting protein interactions
	Bailey Mourant, University of Central Florida
	<i>Characterization of the Clostridium difficile vanZ gene</i> Emily Woods, Emory University
10:00 - 10:15 A.M.	Break
10:15 - 11:45 A.M. St. Petersburg III	Antimicrobial Therapeutics and Resistance II (By Invitation) Dr. Kyle Rohde, University of Central Florida
	<i>Emergence of antibiotic resistance in the absence of acquired external resistance determinants</i> Dr. Herbert Schweitzer, University of Florida
	Discovery of an LL-37 response mechanism in Clostridium difficile Dr. Shonna McBride, Emory University
	Ring distortion of indole alkaloids: A new platform for drug discovery and the identification of antiplasmodial agents
	Dr. Robert Huigins, University of Florida Identification of novel bacterial topoisomerase I inhibitors for development of new antibiotics Dr. Yuk-Ching Tse-Dinh, Florida International University
10:15 - 11:45 A.M. Grand Bay South Ballroom	Environmental Microbiology I Dr. Andrei Barkovskii, Georgia College & State University
	Novel crAssphage marker assessed for microbial source tracking (MST) applications in Tampa Jacob Senkbeil, University of South Florida
	Effects of excavation of drainage ditch systems on bacterial communities and biological contamination of tidal creeks and estuaries Andrei Barkovskii, Georgia College and State University

Saturday, November 11

	Bioremediation of mercury using Serratia marcescens isolated from mercury contaminated site Dr. Timothy Egbo, Alabama State University Factors that allow salmonella to thrive in tomatoes Andree George, University of Florida Evaluation of nitrogen metabolism in municipal wastewater treatment through bioinformatics and molecular tools Ryan Keeley, University of South Florida
12:00 - 1:00 P.M. Grand Bay South Ballroom	Keynote Address Dr. Kelly Doran, University of Colorado, Denver
	Blood-brain barrier penetration by group B Streptococcus
1:00 - 2:00 P.M. Grand Bay North Ballroom	Lunch Provided
2:00 - 3:30 P.M. St. Petersburg III	Molecular and Cellular Microbiology (By Invitation) Dr. Prahathees Eswara, University of South Florida
	(By Invitation) Dr. Prahathees Eswara,
	(By Invitation) Dr. Prahathees Eswara, University of South Florida Regulation of cell division in Staphylococcus aureus
	(By Invitation) Dr. Prahathees Eswara, University of South Florida Regulation of cell division in Staphylococcus aureus Prahathees Eswara, University of South Florida Linking CRISPR-Cas immunity with the RNA degradosome in Staphylococcus epidermidis

2:00 - 3:30 P.M. Grand Bay South Ballroom	Environmental Microbiology II Dr. Melanie Langford, Florida Southern College
	Isolation of multidrug-resistant bacteria from the Florida manatee, Trichechus manatus latirostris Dr. Melanie Langford, Florida Southern College
	Environmental factors significantly correlated with culturable enterococci concentrations in surface waters at Escambron Beach, San Juan, Puerto Rico Abdiel Laureano-Rosario, University of South Florida
	Potential of bioleaching with filamentous fungi to mobilize Li and Co from spent rechargeable Li-ion Batteries Aldo Lobos, University of South Florida
	Environmental conditions affect the isolation of mycobacteriophage from soil Shea Morris, Georgia College and State University
	Microbial community structure of a unique sulfidic spring environment Christina Moss, University of South Florida
	Detection of wild animal sources of fecal indicator bacteria by microbial source tracking (MST) influences regulatory decisions Karena Nguyen, University of South Florida
3:30 - 3:45 P.M.	Break
3:45 - 4:30 P.M. Grand Bay South Ballroom	Virology Dr. Karyna Rosario, University of South Florida
	Discovery of single-stranded DNA viruses

Discovery of single-stranded DNA viruses in fungus-farming termites Mason Kerr, University of South Florida

6:00 - 7:00 P.M. Grand Bay North Ballroom	Microbiology Smackdown Dr. Donald McGarey, Kennesaw State University
4:30 - 6:00 P.M. Williams/Demens	Poster Session
	Confirming the functional roles of the ortholog genes ahpB of Aeromonas hydrophila and hap of Aeromonas salmonicida Rahiq Rahman, Kennesaw State University
	Antiae: A novel external organelle in prokaryotes responsible for gliding motility Elena Pikuta, Athens State University
	Redox substrates and autotrophic pathways of Endoriftia persephone, the gammaproteobacterial endosymbiont of vestimentiferan tubeworm Riftia pachyptila Juliana Leonard, University of South Florida
3:45 - 4:30 P.M. St. Petersburg III	General Microbiology Dr. Avishek Mitra, University of Alabama-Birmingham
	Outer membrane protein (OmpA) in 'Candidatus liberibacter' species, characterization and role as phage receptor Marta Sena-Vélez, Florida State University
	Diversity of viruses circulating in indoor air as assessed via metagenomic sequencing Karyna Rosario, University of South Florida
	Discovery and prevalence of single-stranded DNA viruses associated with spinybacked orbweavers (Gasteracantha cancriformis) from Florida Kaitlin Mettel, University of South Florida

8:30 - 10:00 A.M. St. Petersburg III	Microbiomes (By Invitation) Dr. Larry Dishaw, University of South Florida
	Social interaction network studies of lung microbial communities identify cooperating and competing clubs of bacterial taxa Dr. Kalai Mathee, Florida International University
	Proteobacteria dominance in the preterm infant gut microbiome Samia Dutra, University of South Florida
	State-of-the-art microbiome data analysis Dr. Giri Narasimhan, Florida International University
	Microbes and mariculture: Using probiotics to grow healthier fish Dr. Andrea Tarnecki, MOTE Marine Lab & Aquarium
	Microbiome analysis pipelines: Present and future Dr. Trevor Cickovski, Florida International University
	Characterization of muramyl peptides that regulate antibiotic resistance in Pseudomonas aeruginosa Supurna Dhar, Florida International University
10:00 - 10:15 A.M.	Break
10:15 - 11:45 A.M. St. Petersburg III	Eukaryotic Microbiology (By Invitation) Dr. Rays Jiang, University of South Florida

In search of next generation antimalarials Dr. Debopam Chakrabarti, University of Central Florida

A whole genome mutagenesis screen of the Plasmodium falciparum defines genes important for in vitro asexual blood-stage growth Dr. John Adams, University of South Florida Details matter: Comparative annotation and re-annotation of three cryptosporidium genome sequences reveals surprising similarities and differences

Dr. Jessica Kissinger, University of Georgia

Using molecular genetics to study the plastid Clp complex in malaria parasites Dr. Vasant Muralidharan, University of Georgia

10:15 - 11:45 A.M.Bacterial PathogenesisGrand Bay South BallroomDr. Xingmin Sun, University of South Florida

The novel infectivity gene bbk13 confers complement resistance to the Lyme disease agent Borrelia burgdorferi

Dr. George Aranjuez, University of Central Florida

Identification of a novel two component system connected to membrane energetics in Acinetobacter baumannii

Leila Casella, University of South Florida

Regulation of toxin production and sporulation in Clostridium difficile by the multifunctional protein, RstA Dr. Adrianne Edwards, Emory University

Exploring the regulation of secreted protease and their role in controlling disease progression in Staphylococcus aureus

Brittney Gimza, University of South Florida

A novel Abi-domain protein controls virulence determinant production in Staphylococcus aureus Stephanie Marroquin, University of South Florida

Multivalent mucosal vaccines against Clostridium difficile infection Dr. Xingmin Sun, University of South Florida

12:00 - 1:00 P.M.

Closing Banquet

