

## Friday, September 28, 2018

8:00 – 10:30	Registration and poster set up	
<b>Plenary Session – Banquet Hall West</b>		
8:30	Timothy Secott & Dean Brian Martensen	Welcome from the NCB President and Dean of the College of Science, Engineering & Technology at MSUM
9:00	Michael Sadowsky, University of Minnesota, <b>invited</b>	<b>Opening Presentation:</b> The Ins and Outs of Fecal Microbiota Transplantation: Drugs and Bugs
10:00	Steven Weiland, PSSI, <b>invited</b>	Food Safety/Quality Investigations – Root-Cause Determinations, Risk Assessment and Corrective Actions
10:30	<i>Coffee Break – Reception Hall</i>	

<b>Concurrent Oral Presentations</b>				
	Session 1 – Room 241 Moderator: Yongtao Zhu		Session 2 – Room 243 Moderator: Allison Land	
<b>Time</b>	<b>Presenter</b>	<b>Title</b>	<b>Presenter</b>	<b>Title</b>
10:45	Ryan Fink, <b>invited</b>	<i>Salmonella's</i> desiccation survival and thermal tolerance: genetic, physiological, and metabolic factors	Amanda Brosnahan & Taylor Mach, <b>invited</b>	Studying <i>Staphylococcus aureus</i> carriage on campus, a golden opportunity
11:15	Sahar Malekmo-hammadi	Evaluation of long term survival of four <i>Salmonella</i> serovars on flaxseed	Caleb Rossin	Lysogeny and defense mechanisms in <i>Gordonia terrea</i> phages
11:30	Manoj Kumar Shah	Use of heat-treated poultry pellets in soil impacts survival of <i>Salmonella</i> Newport and subsequent transfer to spinach plants	Sydney Bormann	Identification of mucosal interface colonizing and biofilm-forming microorganisms of the chicken gut
11:45	James Young	<i>Cyanothece sp.</i> ATCC 51142 culture exhibits novel constitutive nitrogenase activity while simultaneously increasing atmospheric oxygen concentrations	Dana M. Walsh	Endometrial cancer is associated with unique microbiota signatures within the reproductive tract
12:00	Heather Deter	A new open-source pipeline that incorporates machine learning to track single cells, classify cell lineage, and quantify cellular characteristics	Abhijit Maji	Characterization of the bacterial biofilm formation property of human gut microbiota
12:15	Justin Anast	Genome analysis of <i>Brevibacterium</i> strains isolated from Austrian hard cheese rinds reveals two novel <i>Brevibacterium</i> species and putative histamine catabolism pathway genes	Sinisa Vidovic	Point mutations in <i>gyrA</i> and deletions in <i>ramRA</i> lead to multidrug resistance in <i>Salmonella enterica</i>
12:30	Miranda Galey	Gut Microbiome Analysis of Three Native Minnesota Bat Species		

**Friday, September 28, 2018 – afternoon**

**Lunch (provided) – Banquet Hall East**

12:45 – 1:45	Career Panel Discussion: Steven Weiland, Corporate Microbiologist, PSSI Kari Severson, SWMN Regional Director-Laboratory and Pathology, Mayo Clinic Michael Sadowsky, Professor, University of Minnesota Harry Mobley, Professor and Chair, University of Michigan
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**Concurrent Oral Presentations**

		Session 1 – Room 241 Moderator: Gregg Marg			Session 2 – Room 243 Moderator: Lois Anderson
<i>Time</i>	<i>Presenter</i>	<i>Title</i>	<i>Presenter</i>	<i>Title</i>	
1:45	Lisa Bowers, <b>invited</b>	Scavenging for sugar: Identification and regulation of the sucrose utilization locus in the aquatic bacterium, <i>Caulobacter crescentus</i>	Osvaldo Martinez, <b>invited</b>	Transduction of retinoic acid-inducible gene 1 by Ebola virus-like particles enhances antigen-presentation	
2:15	Lillian Meierhoff	Isolation of novel diatoms that synthesize highly branched isoprenoids useful for biofuel improvement	AGM Rakibuzzaman	Epitope targeted improvement of vaccine efficacy against porcine circovirus strain 2 (PCV2)	
2:30	Lathadevi (Karuna) Chintapenta	Comparing the Microbiomes of <i>Spartina alterniflora</i> (native marsh grass) and <i>Phragmites australis</i> (invasive marsh grass)	Sudeep Ghimire	Development and characterization of a <i>Prevotella</i> enterotype human gut microbiota library using single medium based culturomics	
2:45	Anthony Kappell	The effect of zinc and copper on antibiotic-resistance in drinking source water	August Burg	Microbiome reactions to human host signaling molecules	

**Plenary Session – Banquet Hall West**

3:00 – 4:00	Harry Mobley, University of Michigan <b>ASM Distinguished Lecturer</b>	<b>Keynote address:</b> Stones, Spears and Swarming: Bacterial Social Aggression at Its Worst
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**Poster Session – Reception Hall**

Coffee and light refreshments provided

4:00 - 5:30	4:00 – 4:45 Presenters stand by odd numbered posters 4:45 – 5:30 Presenters stand by even number posters
5:30 - 6:00	<i>break</i>

**Dinner and Entertainment – Banquet Hall East**

6:00 - 9:30	Dinner buffet at 6 pm, included with registration Music by the Jim McGuire Trio
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