

North Central Branch of the American Society for Microbiology  
76<sup>th</sup> Annual Meeting  
Quality Inn and Suites, Ames, IA  
Hosted by the National Animal Disease Center and Iowa State University

Friday, October 21, 2016

8:00-12:00	Registration and poster set-up			
Plenary session, Ballroom B/C				
8:45	Brad Bearson		Welcome from the NCB President and session moderator	
9:00	Michael Ibba, The Ohio State University, <b>ASM Distinguished lecturer</b>		Keynote address: Translational Control of Antibiotic Resistance	
10:00	Pat Schlievert, University of Iowa, <i>invited</i>		Can Coconuts Kill Many Microbial Pathogens?	
10:30	Coffee break			
Concurrent oral presentations				
	Ballroom B Moderator: Shawn Bearson		Ballroom C Moderator: Michelle Soupir	
Time	Presenter	Title	Presenter	Title
11:00	Crystal Loving	Dietary resistant starch modulates intestinal immune status in pigs	Amanda Anderson	IgA synthesis in response to sub-populations of the gastrointestinal microbiota in 13-lined ground squirrels
11:15	Devin Holman	A meta-analysis of the swine gut microbiota: identifying core members	Manoj K. Shah	Variation in growth of <i>Listeria monocytogenes</i> under salt and bile stress
11:30	Martin Schmidt	Influence of Boric Acid on Growth and Morphology of the Common Dermatophyte <i>Trichophyton rubrum</i>	Kristina M. Feye	Utilization of the yeast-derived postbiotic ingredient, XPC for the abrogation of <i>Salmonella enterica</i> in broilers to reduce <i>Salmonella</i> antibiotic resistance, virulence, load, and prevalence
11:45	Jinlyung Choi	The effect of nutrients on microbial community composition and toxin-producing genera in Iowa lakes during cyanobacteria algal bloom	Amanda Kreuder	RNAseq reveals complex response of <i>Campylobacter jejuni</i> to the ovine gallbladder environment
12:00	Meghan Wymore Brand	Age-related influence of colonization by an AIEC pathobiont on the severity of DSS-induced colitis	Nicolle Lima Barbieri	FNR regulates important virulence factors in APEC (Avian Pathogenic <i>Escherichia coli</i> )
12:15	Julian Trachsel	Dietary Raw potato starch modulates the butyrate-producing microbiota and host immune responses in pigs	Timothy Johnson	Carbadox induces phage gene transcription in swine microbiome

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Lunch				
12:30-1:30	<b>Ballroom A</b>		<b>Buford's, the hotel restaurant</b>	
	Career panel discussion Boxed lunches provided for students		Lunch provided for non-student conference attendees	
Concurrent oral presentations				
	<i>Ballroom B</i> <i>Moderator: Brian Brunelle</i>		<i>Ballroom C</i> <i>Moderator: Heather Allen</i>	
<i>Time</i>	<i>Presenter</i>	<i>Title</i>	<i>Presenter</i>	<i>Title</i>
2:00	Elizabeth Rucks, <i>invited</i>	Lessons learned in mapping the chlamydial inclusion membrane	Austin Mahlik	Monitoring phages and viruses in sewage water
2:15			Abbey J. Steckler	Genetic characterization of <i>Listeria monocytogenes</i> isolated from cases of listeriosis in ruminants in the upper Midwest
2:30	Macy G. Olson	IncF overexpression disrupts chlamydial development by interfering with inclusion membrane organization	Elitza Theel, <i>invited</i>	Zika Virus – A Perspective from the Clinical Laboratory
2:45	Adam Edwinson	Synthetic Gal-GalNAc glycoproteins promote attachment and replication of <i>Cryptosporidium</i> and is density dependent		
3:00	Kim Brogden, <i>invited</i>	Creating computational simulation models containing patient mutational profiles predict drug responder status to anti-PD-1/PD-L1 immunotherapy	Vincent Mastrodomenico	How does OmpX contribute to the growth of <i>Escherichia coli</i> in bile salts?
3:15			Elli Whalen	Characterization of two colistin-resistant <i>E. coli</i> isolates from swine
3:30	Luke D. Bussiere	Investigation into the modulation of the hypoxic response in prostate cancer by mammalian orthoreovirus $\mu 1$ and $\mu 2$ viral proteins	John Bannantine, <i>invited</i>	The wild goose chase in mycobacterial research: the need to question even repeated observations
3:45	Nathan Peroutka-Bigus	Enhanced amoebastatic activity against pathogenic <i>Naegleria fowleri</i> facilitated by bacteria-mimicking nanoparticles		

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Poster session	
4:00-5:30	<b>Ballroom D</b> Presenters: please plan to stand at your poster from 4:00-5:00 Coffee and light refreshments provided
5:30-6:00	<i>Break</i>
Dinner and entertainment	
6:00-9:30	Dinner buffet by Quality Inn and Suites is included with registration Music by Damon Dotson Cash bar

Saturday, October 22, 2016

NCB Business Meeting		
8:15	Ballroom A Elect 2017 NCB officers and host of the 2017 meeting	
8:45	Coffee break	
Oral presentations		
Ballroom B/C		
Moderator: Adina Howe		
Time	Presenter	Title
9:00	Yeyan Qiu	Characterization of the surface sugar in cyanobacteria with fluorescein-labeled lectins screening
9:15	Xuewei Liang	Enrichment and isolation of microcystin-degrading bacteria from five algal bloom-impacted lakes in Iowa
9:30	Sarhad Alnajjar	Therapeutic efficacy of JNJ-49214698, an RSV fusion inhibitor, in RSV-infected neonatal lambs
9:45	Alexandria Van Noort	PRRSV virus-like particles intranasal immunization with 2'3'-cGAMP Vaccigrade <sup>TM</sup> adjuvant demonstrate increased viremia post challenge
10:00	Kabita Pandey	Role of GTPase-activating protein -binding protein 1 (G3BP1) in porcine epidemic diarrhea virus replication
10:15	Allison M. Land	Can HIV help us cure cancer?
10:30	Promisree Choudhury	Investigation into a role for G3BP1 in mammalian orthoreovirus stress granule modulation
Student presentation awards		
10:45	Coffee and light refreshments provided	
11:30	Adjourn	