

2018 Boston Bacterial Meeting - Schedule and Introduction

Thursday, May 31

8:00 AM	Registration and Breakfast	
9:00 AM	Opening Remarks	
Session I: Motility		Moderator: Becky Lamason
9:10 AM	Shanice Webster	The type IV pili alignment complex, surface sensing, and cyclic-di-GMP signaling in early biofilm formation
9:30 AM	Marianne Grognot	High throughput 3D tracking of bacterial chemotaxis in complex environments
9:50 AM	Miles Duncan	<i>Vibrio cholerae</i> motility exerts drag force to impede attack by the bacterial predator <i>Bdellovibrio bacteriovorus</i>
10:10 AM	Sophie Robitaille	Experimental directed evolution of a swarming motility-defective mutant of <i>Pseudomonas aeruginosa</i> leads to regained motility
10:30 AM	Coffee Break	
Session II: Antibiotics and Resistance		Moderator: Hesper Rego
11:00 AM	Wilma Neumann	The siderophore enterobactin targets ciprofloxacin to Gram-negative pathogens
11:20 AM	Gleb Pishchany	Amycomycin: an antibiotic that isn't
11:40 AM	Sylvie Manuse	Phenotypic variation of intracellular ATP concentration impacts persister formation in <i>E. coli</i> at a single cell level
12:00 PM	Cristina Peñaranda	AlgR controls in vivo persistence of <i>Pseudomonas aeruginosa</i>
12:20 PM	Lunch and Breakout Session 1	
12:40 PM	Breakout Sessions Begin	
1:30 PM	Networking	
Session III: Stress Response Mechanisms and Systems Biology		Moderator: Cheryl Andam
1:40 PM	Rilee Zeinert	A legacy role for DNA binding of Lon protects against genotoxic stress
2:00 PM	Michelle Bellerose	<i>Mycobacterium tuberculosis</i> mechanisms for survival under antibiotic pressure
2:20 PM	Karen Zhu	Forecasting bacterial survival-success and adaptive evolution through multi-omics approaches, network analyses and machine learning
2:40 PM	Monica Guo	A bacterial chromosome structuring protein binds overtwisted DNA to stimulate type II topoisomerases and enable DNA replication
3:00 PM	Coffee Break	
Session IV: Microbial Ecology		Moderator: Carey Nadell
3:30 PM	Batbileg Bor	A glimpse into the secret lifestyle of TM7x as a CPR organism
3:50 PM	Audrey-Anne Durand	The symbiotic complex of <i>Dendroctonus simplex</i> : implications on the beetle tree attack and life cycle
4:10 PM	Cathleen Schlundt	Spatial structure in the "Plastisphere": Imaging bacterial communities on plastic marine debris using CLASI-FISH
4:30 PM	Steven Biller	Heterotroph interactions alter <i>Prochlorococcus</i> transcriptome dynamics during extended periods of darkness
Poster Session I / Day 1 Reception		
5:00 PM	Poster Session IA: Posters 1-73 (odds) and 75	
6:00 – 7:00 PM	Poster Session IB: Posters 1-73 (evens) and 82, 88, 100	

Friday, June 1

8:30 AM	Morning Coffee	
Session V: Host-Pathogen		Moderator: Scarlet Shell
9:00 AM	Jen Helble	Two-photon imaging of <i>Chlamydia</i> infection reveals host immune-cell migration to mucosal surfaces
9:20 AM	Sally Demirdjian	PIP3 induces phagocytosis of non-motile <i>Pseudomonas aeruginosa</i>
9:40 AM	David VanInsberghe	Diarrheal illnesses trigger <i>Clostridium difficile</i> colonization in the human gut
10:00 AM	Troy Hubbard	Re-engineering the cholera pathogen yields a probiotic agent that rapidly protects against cholera
10:20 AM	Coffee Break	
Session VI: Microbial Communities		Moderator: Michelle Larsen
10:40 AM	Sajjad Hossain	Discovery of a novel nitric oxide responsive pathway and a putative nitric oxide sensor (NosP)
11:00 AM	Murray Tipping	Self recognition signals induce antibiotic tolerance in the opportunistic pathogen <i>Proteus mirabilis</i>
11:20 AM	Kristin Loomis	Carbon source utilization of the skin Microbiota
11:40 AM	Abhishek Shrivastava	Cargo transport shapes the spatial organization of a microbial community
12:00 PM	Lunch and Breakout Sessions	
12:20 PM	Breakout Sessions Begin	
1:10 PM	Networking	
Session VII: Microbial Engineering		Moderator: Chris Johnston
1:20 PM	Bo Yan	SMRT-Cappable-seq reveals the complex operome of bacteria
1:40 PM	Jeffrey Wagner	Live and let die: molecular kill switches in <i>Mycobacterium tuberculosis</i> with applications to vaccine development
2:00 PM	Jacob Palmer	Engineered probiotic for the inhibition of <i>Salmonella</i> via tetrathionate-induced production of microcin H47
Coffee and Poster Session II		
2:20 PM	Poster Session IIA: Posters 74-146 (odds)	
3:20 PM	Poster Session IIB: Posters 74-146 (evens), 32	
Session VIII: Morphogenesis and Cell Surface		Moderator: Frédéric Veyrier
4:20 PM	Katherine Wu	Mycobacterial HtrA is required to detoxify a putative cell wall muramidase
4:40 PM	Oscar Diaz	The <i>Clostridium difficile</i> lipoprotein GerS is required for cortex modification and thus spore germination.
5:00 PM	Florence Caro	Lipoprotein transport system knockdown reveals a novel cell death trajectory in <i>V. cholerae</i>
5:20 PM	Keynote Address: Dianne Newman	
6:30 - 8:30 PM	Day 2 Reception	