

2020 Boston Bacterial Meeting

Day 1 - Thursday, July 16

9:00 AM	Opening Remarks	
I: Bacterial Physiology		Session chair: Mona Orr
9:10 AM	Felix Wong	Cytoplasmic condensation induced by membrane damage contributes to antibiotic lethality
9:30 AM	Kanika Khanna	Asymmetric localization of the cell division machinery during <i>Bacillus subtilis</i> sporulation
9:50 AM	Simone Pellicciari	Evidence of a broadly conserved bacterial chromosome origin unwinding system
10:10 AM	Grace Johnson	Functionally Uncoupled Transcription-translation in <i>B. subtilis</i>
10:30 AM	Break	
II: Antibiotic Resistance		Session chair: Wendy Mok
11:00 AM	Trever Smith	Morphological profiling to identify drug pathways of action in <i>Mycobacterium tuberculosis</i>
11:20 AM	Melanie Martinsen	Core antibiotic-induced transcriptional signatures reflect susceptibility to all members of an antibiotic class
11:40 AM	Anna Green	Genome-wide detection of epistasis in antibiotic resistant <i>M. tuberculosis</i>
12:00 PM	Wenwen Huo	Novel molecular mechanisms for the development of fluoroquinolone resistance <i>in vivo</i>
12:20 PM	Lunch	
1:30 PM	Breakout Sessions (Please see abstract book for links)	
2:30 PM	Break	
III: Phage and Gene Transfer		Session chair: Batbileg Bor
3:00 PM	Alex Meeske	A phage-encoded anti-CRISPR enables complete evasion of type VI-A CRISPR-Cas immunity
3:20 PM	Kevin Gozzi	<i>Caulobacter crescentus</i> produces a gene transfer agent to mediate genetic exchange during stress
3:40 PM	Siân Owen	Prophages have cognate immunity to their own phage resistance proteins

Day 2 - Friday, July 17

IV: Bacteria-Host Interactions		Session chair: Emrah Altindis
9:00 AM	Alyson Warr	Shiga toxin shapes the intestinal innate immune response to EHEC
9:20 AM	Mindy Engevik	Mucin degrading microbes release monosaccharides that chemoattract <i>Clostridioides difficile</i> and facilitate colonization of the intestinal mucus layer
9:40 AM	Sage Foley	Microbiome regulation of intestinal P-glycoprotein expression in maintenance of homeostasis
10:00 AM	Qian Huang	A gut commensal, <i>Parabacteroides distasonis</i> , triggers Type 1 diabetes autoimmunity
10:20 AM	Break	
V: Intermicrobial Interactions		Session chair: Joseph Larkin
11:20 AM	Giuseppina Mariano	A new family of Type VI secretion system-delivered effector proteins displays ion-selective pore-forming activity
11:40 AM	Rebecca McHugh	Characterisation of aurodox: A Type III secretion system inhibitor from <i>Streptomyces goldiniensis</i>
12:00 PM	Betty Slinger	Insights into the role of inter-species quorum sensing during co-infections with <i>B. multivorans</i> and <i>P. aeruginosa</i>
12:20 PM	Vijay Singh	Anti-quorum sensing and anti-biofilm activity of 1,2-benzenedicarboxylic acid, diisooctyl ester against <i>Pseudomonas aeruginosa</i> by diminishing the quorum sensing-controlled virulence expression
12:40 PM	Lunch	
VI: New Methods in Microbiology		Session chair: Benjamin Ross
2:00 PM	Bimal Jana	CRISPRi-TnSeq: A genome-wide high-throughput tool for bacterial essential and nonessential genetic interaction mapping
2:20 PM	Jason Lynch	Development of designer probiotics for targeted delivery of immunomodulatory payloads
2:40 PM	Sydney Blattman	Prokaryotic single-cell RNA sequencing by in situ combinatorial indexing
3:00 PM	Keynote Address - KC Huang	
4:15 PM	Closing Remarks	