



2021 Midwest Microbial Pathogenesis Conference

Hosted by Michigan State University

Friday, September 17, 2021

12 p.m.	Registration is open from 12 - 7 p.m. Located at: 567 Wilson Rd, East Lansing, MI 48824	Biomedical and Physical Science (BPS) West Lawn
4 p.m.	Welcome Reception with Strolling Dinner and Yard Games <ul style="list-style-type: none">• Bring your posters for set up	BPS West Lawn
6:45 p.m.	Session 1 - Opening Session <ul style="list-style-type: none">• Welcome<ul style="list-style-type: none">• Neal Hammer and Chris Waters, Michigan State University• Intravital microscopy reveals the importance of spirochetal motility and mechanisms of immune evasion in the development of Lyme disease<ul style="list-style-type: none">• Mark Wooten, University of Toledo• Pushing the Envelope: Virulence Functions of Francisella tularensis Hypothetical Proteins<ul style="list-style-type: none">• Jason Huntley, University of Toledo	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
8 p.m.	Session 2 - Current Perspectives On Fungal Pathogens <ul style="list-style-type: none">• The mechanism and dynamics of acquired of antifungal drug resistance in <i>Candida</i> species<ul style="list-style-type: none">• Anna Selmecki, University of Minnesota• Genetic Approaches for Understanding Fungal Pathogenesis: Harnessing the Awesome Power of Yeast Genetics<ul style="list-style-type: none">• Teresa O'Meara, University of Michigan• Fungal-Bacterial Interactions in Non-healing Wounds<ul style="list-style-type: none">• Lindsay Kalan, University of Wisconsin –Madison• A New Genetic Toolset Reveals Regulators of <i>Candida auris</i> Morphogenesis<ul style="list-style-type: none">• Darian Santana, University of Michigan	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
9:15 p.m.	Concluding Remarks <ul style="list-style-type: none">• Neal Hammer and Chris Waters, Michigan State University	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415

Virtual Program Information - Live On September 16, 2021

Please follow email instructions to access MMPC Swoogo site for complete access to program details, poster abstracts and zoom information.

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7 a.m.	Registration (open from 7 a.m. - 6 p.m.) Located at: 567 Wilson Rd, East Lansing, MI 48824	BPS Atrium
7 a.m.	Breakfast	BPS West Lawn
8:30 a.m.	Session 3 - Host-Pathogen Host-Microbiome Interactions <ul style="list-style-type: none">A multipurpose ribosome hibernation factor in <i>Staphylococcus aureus</i><ul style="list-style-type: none">Mee-Ngan F Yap, Northwestern University<i>Pseudomonas aeruginosa</i> CdiA contributes to interbacterial antagonism and virulence<ul style="list-style-type: none">Jonathan Allen, Loyola University ChicagoThe role of ISGylation in pathogen spread<ul style="list-style-type: none">Lilly Radoshevich, University of Iowa<i>Helicobacter pylori</i> activates STING signaling via cag type IV secretion system activity<ul style="list-style-type: none">Cecily Wood, University of Kentucky	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
9:45 a.m.	Coffee Break <i>Sparty's Café also open for personal purchases</i>	BPS Atrium Near CEM 138
10 a.m.	Session 4 - Gene Regulation and New Models of Pathogenesis <ul style="list-style-type: none">Where am I and what should I do? Insights on how the Lyme disease spirochete regulates production of virulence proteins<ul style="list-style-type: none">Brian Stevenson, University of KentuckyModulating flagella-mediated motility in Salmonella<ul style="list-style-type: none">Johanna Effenbein, University of Wisconsin—MadisonMechanisms of <i>Mycobacterium tuberculosis</i> pathogenesis<ul style="list-style-type: none">Christina Stallings, Washington University in St. LouisTemperature influences the composition and cytotoxicity of extracellular vesicles in <i>Staphylococcus aureus</i><ul style="list-style-type: none">Paul Briaud, Ohio University	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
11:15 a.m.	Lunch	BPS West Lawn
12:30 p.m.	COVID Panel <ul style="list-style-type: none">Viral Genome Evolution<ul style="list-style-type: none">Vaughn Cooper, University of PittsburghACE2 Receptor<ul style="list-style-type: none">Bruce Uhal, Michigan State UniversityEpidemiology<ul style="list-style-type: none">Sandip Shah, Michigan Department of Health and Human Services	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415

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Saturday, September 18, 2021 - Continued

1:30 p.m.	Session 5 - Controlling Bacterial Infections <ul style="list-style-type: none">Birds of a feather enteritis together: A tale of lorikeets, Clostridium and the gut microbiome<ul style="list-style-type: none">Vanessa Hale, Ohio State UniversityImpact of psychosocial stress on host-microbe interactions at the mucosal surface<ul style="list-style-type: none">Michael Bailey, Nationwide Children's HospitalRewiring the host Hippo signaling pathway during <i>Legionella pneumophila</i> infection<ul style="list-style-type: none">Pei-Chung Lee, Wayne State University<i>Listeria monocytogenes</i> GImR is an accessory uridylyltransferase essential for cytosolic survival and virulence.<ul style="list-style-type: none">Kimberly Gutierrez, University of Wisconsin-Madison	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
2:45 p.m.	Poster Session and Afternoon Networking Reception <ul style="list-style-type: none">See Swoogo for abstracts	BPS Atrium's and First Floor Hallways
4:45 p.m.	Session 6 - Molecular Mechanisms of Pathogenesis <ul style="list-style-type: none">Engineered decoy receptors as potent neutralizers of SARS-CoV-2 variants and therapeutic candidates for the treatment of COVID<ul style="list-style-type: none">Erik Procko, University of IllinoisStress response systems in Brucella<ul style="list-style-type: none">Sean Crosson, Michigan State UniversityTargeting disulfide bond formation in bacteria<ul style="list-style-type: none">Cristina Landeta, Indiana University BloomingtonNitric oxide stimulates type IV MSHA pilus retraction in <i>Vibrio cholerae</i> via activation of the phosphodiesterase CdpA<ul style="list-style-type: none">Hannah Hughes, Indiana University Bloomington	Primary Speaker Space CEM - 138 Additional Presentation Viewing BPS - 1410 BPS - 1415
6 p.m.	Keynote Address: Quorum Sensing Across Domains: From Viruses To Bacteria To Eukaryotes <ul style="list-style-type: none">Bonnie Bassler, Princeton University	Primary Speaker Space CEM - 138
7 p.m.	Concluding Remarks <ul style="list-style-type: none">Neal Hammer, Michigan State UniversityChris Waters, Michigan State University	Additional Presentation Viewing BPS - 1410 BPS - 1415
7:15 p.m.	Dinner on Your Own and Planning Committee Meeting	

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