

Great Plains Infectious Disease Meeting

Speakers schedule for Friday-Saturday, November 11-12, 2022

Friday at Hampton Inn

- 2:30-3:00 Registration at Hampton Inn
3:00-4:00 Nick Eisele, PhD – Director of Molecular Biology and Microbiology at Actym Therapeutics.
4:00-6:00 Welcome and Networking.
6:00-6:55 Dinner
6:55-7:10? 3x5 min lightening talks
7:10-9:00 Panel discussion.

Saturday at Bond LSC

7:30-8:15 Registration and breakfast

Session 1. Pulmonary infections

- 8:15-8:30 3x5 min lightening talks
8:30-8:50 Marianna Patrauchan (OSU) – The Molecular Pillars of Calcium Signaling in *Pseudomonas aeruginosa*
8:50-9:10 Lu Huang (UAMS) – Interplay between lung phagocytes and *Mycobacterium tuberculosis* in the era of immunometabolism
9:10-9:30 4x5min lightening talks
9:30-9:40 Group discussion

10-minute break

Session 2. Vector-borne infections

- 9:50-10:10 Samniqueka Halsey (MU) – Understanding the role of tallgrass prairie restoration in the emergence of tick-borne disease
10:10-10:30 John Blevins (UAMS) – Studying cyclic dinucleotide second-messenger signaling in relapsing fever spirochetes
10:30-10:50 Travis Bourret (Creighton) – The DnaK suppressor protein (DksA) promotes *Borrelia burgdorferi* resistance to oxidative stress through control of central metabolism
10:50-11:00 Group discussion

Posters and Lunch: 11:00 – 1:00

Session 3. General pathogenesis/immunology

- 1:00-1:20 Bing Yang (MU) – TAL effector mediated plant bacterial diseases
1:20-1:40 Clarissa Durie (MU) – Connecting the Dots: Structure & Function of the *Legionella pneumophila* Type IV Secretion System
1:40-2:00 Greg Kirchenbaum (CTL) - Monitoring memory B cell reactivity against SARS-CoV-2
2:00-2:10 Group discussion

10-minute break (poster take down)

Session 4. Viral Pathogens

- 2:20-2:40 St. Patrick Reid (UNMC) – Development of novel system to study Chikungunya virus pathogenesis
2:40-3:00 Robin Orozco (KU) – Genetic Influences of Immune Function: Pro-autoimmune allele of tyrosine phosphatase, PTPN22, enhances anti-viral immunity
3:00-3:20 Jared May (UMKC) – Regulation of virus-host interactions by biomolecular condensates
3:20-3:30 Group discussion