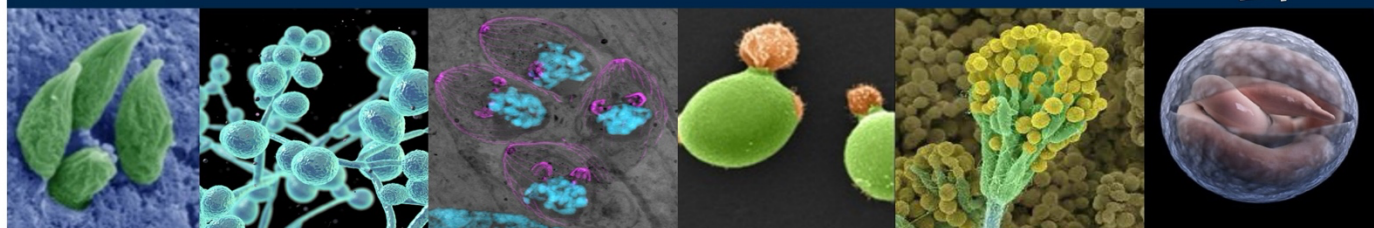


MIDWEST NEGLECTED INFECTIOUS DISEASES MEETING



University of Michigan, Ann Arbor, MI

August 16th – 17th, 2024



Meeting Schedule

Friday, August 16

Activity

- | | |
|------------------|--|
| 11:00 – 11:30 am | Registration and poster set-up |
| 11:30 – 12:45 pm | Lunch buffet |
| 12:45 – 1:00 pm | Opening remarks and keynote introduction |

Keynote and plenary session 1 Moderator: Teresa O'Meara

1:00 – 1:45 pm



Mycology Keynote Speaker: James Andrew Alspaugh

Professor of Medicine, Professor of Cell Biology,
Professor of Molecular Genetics and Microbiology
Duke University

“We are all under stress: Lessons in adaptation from a fungal pathogen”

1:45 – 2:00 pm

Q & A, discussion

2:00 – 2:25 pm

Fernanda Novais (The Ohio State University).
“Immunopathogenesis in cutaneous leishmaniasis.”

2:25 – 2:40 pm

Nagabhushan Chandrashekar (University of Illinois at Urbana-Champaign).
“Sialoporphin functions through mTOR-HIF1 α for CD8⁺ T Cell responses to a fungal vaccine.”

2:40 – 2:55 pm

Fengrong Wang (University of Michigan Medical School).
“Translation initiation factor eIF1.2 is a crucial early regulator of *Toxoplasma* bradyzoite cyst formation.”

2:55 – 3:10 pm

Coffee break

Plenary session 2 Moderator: Kasturi Haldar

3:10 – 3:35 pm

Ana Flores Mirales (University of Notre Dame).
“Unveiling *Candida albicans* pathogenesis during catheter-associated UTI.”

3:35 – 3:50 pm

Manuel Fierro (Iowa State University).
“UIS2/GRA44 is required for organization of the parasitophorous vacuole in divergent vacuole-dwelling apicomplexans.”

3:50 – 4:05 pm

Jintao Xu (University of Michigan Medical School).
“The role of nitric oxide synthase 2 in protecting against disease pathology during *Cryptococcus neoformans* infection.”

4:05 – 4:20 pm

Marienela Heredia (University of Wisconsin - Madison).
“Using *Entamoeba muris* to model fecal-oral transmission of *Entamoeba* in mice”

4:20 – 4:35 pm Coffee break

Plenary session 3 Moderator: Tamara Doering

4:35 – 5:00 pm **Michelle Hays** (Stanford University).
“Living with a killer: how coevolved *Saccharomyces cerevisiae* become toxin resistant.”

5:00 – 5:15 pm **James Blauwkamp** (Indiana University School of Medicine).
“Anchor: a novel dynamin interactor required for malaria parasite apicoplast inheritance.”

5:15 – 5:30 pm **Emily Simonton** (University of Wisconsin - Madison).
“Functional redundancy among members of the TLO expanded gene family in *Candida albicans*.”

5:30 – 7:00 pm Dinner

Lightning Talk and Poster Session Moderator: Noelia Lander

7:00 – 7:35 pm **Guolei Zhao** (University of Michigan Medical School).
“Identification of a specific ALS adhesin governing skin colonization of *Candida auris*.”

David Williams (Rush University Medical Center).
“Glucose in - lactate out: glucose and lactate transport in *Schistosoma mansoni*.”

Sri Harshini Goli (Indiana University School of Medicine).
“Adiponectin pathway activation dampens inflammation and enhances alveolar macrophage fungal killing via LC3-associated phagocytosis.”

Philip Hendricks (University of Wisconsin - Madison).
“Determining the individual function and effect of structural variation among the TLO gene family members of *Candida albicans*.”

Maria Nava (University of Illinois at Urbana-Champaign).
“Role of *Cryptosporidium parvum* calcium-dependent protein kinase 5 (CDPK5) in male gametogenesis and virulence.”

Kevin Newhall (Case Western Reserve University).
“Specific macrophage states and select *Debaryomyces hansenii* strains promote immune evasion.”

Patrick Rample (University of Michigan Medical School).
“*Toxoplasma gondii* putatively salvages ribonucleosides by ingesting and digesting RNA from infected host cells.”

Reni John (University of Illinois at Urbana-Champaign).
“Fungal vaccine-induced Tc17 cells depend on OXPHOS metabolism than glycolysis.”

Sammy Aboagye (Rush University Medical Center).
“Identification of Schistosomicidal Compounds from *Balanites aegyptiaca*.”

Liza Loza (University of Wisconsin - Madison).
“Investigating a new participant in cryptococcal cell wall synthesis.”

Michael McFadden (University of Michigan Medical School).
“Non-canonical activation of IRE1 α during *Candida albicans* infection enhances macrophage fungicidal activity.”

7:35 – 9:30 pm **Poster Session**

Saturday, August 17

Activity

8:00 – 9:00 am

Breakfast

Keynote and plenary session 4 Moderator: Yifan Wang

9:00 – 9:45 am



Parasitology Keynote Speaker: Chi-min Ho

Assistant Professor of Microbiology and Immunology
Columbia University

“Cabamiquine inhibits GTPase-driven steps in malarial protein synthesis.”

9:45 – 10:00 am

Q & A, discussion

10:00 – 10:15 am

Faith Anderson (University of Michigan Medical School).

“*Candida albicans* cell wall remodeling in response to gastrointestinal bacteria.”

10:15 – 10:30 am

Stephanie Wood (Case Western Reserve University).

“Identification of a flatworm-specific class of Sox proteins.”

10:30 – 10:55 am

Stefan Kanzok (Loyola University Chicago).

“Plasmodium SPM-1 is a microtubule-stabilizing protein with a role in schizont organization.”

10:55 – 11:10 am

Coffee break

Plenary session 5 Moderator: Kristie Goughenour

11:10 – 11:35 am

Jennifer Head (University of Michigan).

“Recent and forecasted increases in coccidioidomycosis incidence in California linked to hydroclimate swings.”

11:35 – 11:50 pm

Milad Ahmed (University of Cincinnati).

“Functional characterization of compartmentalized cAMP signals in *Trypanosoma cruzi*.”

11:50 – 12:05 pm

Gabriella Matheny (The Ohio State University).

“Identifying carbon and sulfur sources available to *Histoplasma capsulatum* in the phagosome.”

12:05 – 12:20 pm

Abdulsalam Adegoke (University of Michigan Medical School).

“Tick innate immune response to pathogen infection at single-cell resolution.”

12:20 – 12:30 pm

Closing remarks, poster awards announcement, farewell.

Thank you to our meeting sponsors!

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MNID 2024 Organizers: Yifan Wang, Teresa O'Meara, Kristie Goughenour