2022 MNID – Poster list

Midwest Neglected Infectious Diseases Meeting
August 12 – 13, 2022
University of Notre Dame

Display your poster at the board # indicated below. To ensure everybody has time to see and discuss posters, we have divided the 1st poster session (Friday from 4:25 to 6:05 PM) in half. For odd numbered posters, please be at your poster from 4:25 to 5:15 PM, and for even numbered posters, please be there from 5:15 to 6:05PM. There will be a poster mixer after the last session on Friday from 9:00 to 10:00 PM, but being present at your poster is optional. Poster boards will be set up around the Jordan Hall Galleria; a map of the area and pins will be provided upon registration.

Poster #	Name	Institution	Title
1. *minitalk*	Alyssa La Bella	University of Notre Dame	*Candida albicans* colonizes and persists in the bladder via Efg1 and its downstream effector, Als1, to cause CAUTI
2.	Andrew Woodruff	The Ohio State University	Disruption of mating processes by loss of *SIR2* in *Candida albicans* depends on genetic background
3.	Ben Liffner	Indiana University School of Medicine	Defining *P. falciparum* nuclear organisation and microtubule organizing centre (MTOC) dynamics using ultrastructural expansion microscopy
4.	Chunlin Yang	Indiana University School of Medicine	The Kelch domain containing protein phosphatase PPKL plays essential roles in regulation of *Toxoplasma gondii* division
5. *minitalk*	Clair Henthorn	University of Wisconsin-Madison	Single-cell approaches for bridging *Brugia malayi* host-parasite-drug interaction knowledge gaps
6. *minitalk*	Einar Olafsson	University of Michigan Medical School	Identifying *Toxoplasma* genetic determinants of host-parasite spatial phenotypes with computer vision and CRISPR/Cas-9 mutagenesis
7.	Dale Lingo	The Ohio State University	Differential engagement of the oral epithelium by *Candida albicans* clinical isolates
8. *minitalk	Darian Santana	University of Michigan	Genetic determinants of *Candida auris* colonization of abiotic surfaces
9.	Eliud Odhiambo	Indiana University School of Medicine	Antibodies to *Plasmodium falciparum*'s EBP2 and EBA175 are associated with hemoglobin concentrations in low and high malaria transmission settings in western Kenya
10.	John Chan	University of Wisconsin - Oshkosh	Development of non-sedating benzodiazepines to treat parasitic flatworm infections
11.	Innocent Safeukui	University of Notre Dame	Simultaneous treatment of malaria and its co-evolved genetic disorder sickle cell anaemia
12.	Juan Gonzalez	University of Notre Dame	Exploring the use of 11-Mercaptoundecanoic-Acid Functionalized Gold Nanoparticles as a Drug Delivery System for Novel Anti-Leishmanial Drugs
13. *minitalk*	Elizabeth Gaylord	Washington University School of Medicine	The phosphatase Sac1 mediates capsule secretion in *Cryptococcus neoformans*

14.	Elizabeth Arsenault	University Notre Dame	Characterization of a novel regulator of mating in the fungal pathogen *Cryptococcus neoformans*.
15.	Faith Anderson	University of Michigan Medical School	*Candida albicans* cell wall remodeling in response to commensal gastroinestinal bacteria
16.	Kristie Goughenour	University of Michigan Medical School	Trehalose-6-Phosphate Synthase (*TPS1*) in *Cryptococcus neoformans* contributes to fungal avoidance of the innate immune system during pulmonary infection
17. *minitalk*	John Beck	Iowa State University	Functional Dissection of the *Plasmodium* Protein Export Machinery by a Precision Conditional Mutagenesis Approach
18.	Lindsey Turnbull	Indiana University School of Medicine	Observation of Anopheline mosquitoes and human behavior in an epidemic-prone highland area of Kenya identifies gaps in protection
19.	Manuel Fierro	Iowa State University	A novel *P. falciparum* knock sideways approach for secreted proteins reveals an important function for PTEX component HSP101 in the parasite ER
20.	Liza Loza	Washington University School of Medicine	Synthesis of alpha-1,4-linked glucans in glycogen and possibly the cell wall is important for the virulence of *Cryptococcus neoformans*
21.	Michael McFadden	University of Michigan Medical School	*Candida albicans* activation of host organelle stress responses modulates inflammation
22.	Peter Brechting	The Ohio State University	Disruption of peroxisome function reduces iron scavenging and virulence in the human fungal pathogen *Histoplasma capsulatum*
23.	Mike Holmes	Indiana University School of Medicine	Distinct eIF4F complexes in *Toxoplasma gondii*: A new layer of translational control
24.	Noelia Lander	University of Cincinnati	Dissecting the cAMP signaling pathway in *Trypanosoma cruzi*
25.	Pariyamon Thaprawat	University of Michigan Medical School	Defining the role of TgATG9 and autophagy in *Toxoplasma gondii* persistence
26.	Patrick Rimple	University of Michigan Medical School	Genetic screens show that disrupting the ingestion pathway in *Toxoplasma gondii* leads to an increased reliance on parasite biosynthetic pathways
27. *minitalk*	Peter Stuckey	University of Notre Dame	Interferon-γ influences the outcome of fungal intracellular infection by promoting maturation of the cryptococcal-containing phagosome
28.	Rebecca Busch	Southern Illinois University Carbondale	Deletion of core septin genes result in fungicidal activity of caspofungin
29.	Benjamin Gombash	University of Notre Dame	Interactions Between the Diet and Mycobiome of Long-tailed Macaques (*Macaca fascicularis*) Vary Across Islands with Evidence of a Role for Antifungal Plants
30. *minitalk*	Rafael Polidoro	Indiana University School of Medicine	Shifted dynamic equilibrium between gut microbiota and local immune system influences systemic *Plasmodium infection* and adaptive immunity
31.	Rodolpho Ornitz Oliveira Souza	Indiana University School of Medicine	LMF1 mediates mitochondrial dynamics in *Toxoplasma gondii* by interacting with IMC10

32.	Sk Abdus Sayeed	Cleveland State University	Investigating TERRA functions in VSG switching and telomere maintenance in *Trypanosoma brucei*
33.	Sudhanva S. Kashyap,	Iowa State University	Increasing the potency of emodepside against adult *Brugia malayi*
34.	Amanda Krueger	Indiana University School of Medicine	Role of the Plant-Like Kinase TgBIN2
35.	Anne Stahlfeld	Northwestern University	Implications of the innate immune response to *Plasmodium falciparum* for modeling: a literature review and modeling analysis
36.	Elizabeth Fusco	Indiana University School of Medicine	Identifying memory B cell populations from naïve B cells in *Plasmodium* infected mice
37.	Emily Simonton	The Ohio State University	Functional partitioning among members of the TLO expanded gene family in *Candida albicans*
38.	Emmitt Jolly	Case Western Reserve University	LncRNAs are differentially expressed between wildtype and cultured strains of African trypanosomes
39.	Giselle Lima-Cooper	Indiana University School of Medicine	Infection with multiple *Plasmodium* species – Time to consider submicroscopic infections and non-*falciparum* malaria in control and treatment strategies?
40.	Hailey Johnson	University of Wisconsin - Oshkosh	Ligand-Gated Ion Channels as Drug Targets to Kill Blood-Dwelling Parasitic Flatworms
41.	Isaac Kamara	University of Wisconsin - Oshkosh	Annotation of G-Protein Coupled Receptors in the Genomes of Parasitic Blood Flukes
42.	Juliet Anku	University of Michigan Medical School	Methods for analyzing *Candida auris* colonization on diverse surfaces
43.	Katherine Floyd	Washington University School of Medicine	Function and Inhibition of Signal Peptide Peptidase in *Plasmodium*
44.	Katie Ryan	University of Wisconsin-Madison	Exploiting microbial natural products and advanced phenotypic screens for anthelmintic discovery
45.	Katie Thibodeau	Indiana University School of Medicine	LMF1-IMC10 tether is regulated by phosphorylation in *Toxoplasma gondii*
46.	Kristin Van Den Ham	Indiana University School of Medicine	Composition of Pre-transmission Season Stool Microbiota is Associated with Resistance to Malaria in Older Children
47.	Katura Metzner	University of Michigan Medical School	Imaging-based screening identifies *NRD1* as a new anti-virulence target in *C. albicans*
48.	Keeley Choy	Washington University School of Medicine	Sterol homeostasis is critical for surface structure organization and virulence in *Cryptococcus neoformans*
49.	Michelle Huang	University of Notre Dame	Identification of age-markers for the sand fly vector of *Leishmania major*, *Phlebotomus papatasi*
50.	Milad Ahmed	University of Cincinnati	Study of cAMP signaling dynamics in *Trypanosoma cruzi* life cycle

51.	Nicholas Nieto	Iowa State University	Targeted Proteomics to Elucidate the Malaria Parasite plastid DNA Repair Proteins
52.	Olivia Bednarski	Indiana University School of Medicine	Unraveling the role of the gut microbiota in the severity of malaria in Ugandan children; a systems biology approach
53.	Robert Fillinger	The Ohio State University	Parasexual recombination in *Candida albicans* exceeds conventional meiosis
54.	Sarah Minkler	Iowa State University	Effects of ivermectin on adult filarial nematode secretions
55.	Stephanie Wood	Case Western Reserve University	Expression of SoxS1 in Schistosomes after Host Invasion
56.	Stephanie Geller	University of Wisconsin-Madison	Unraveling *Candida albicans* Dispersion by Screening Transcription Factor Mutants
57.	Kendra Gallo	University of Wisconsin-Madison	Improving resources for surveillance and study of the neglected parasite *Mansonella*
58.	Aqsa Raja	University of Cincinnati	Endogenous tagging and localization of putative cAMP effectors in *Trypanosoma cruzi*
59.	Matheus Bastos	Indiana University School of Medicine	Dissecting the function of m6A reader proteins in *Toxoplasma gondii*
60.	Malak H. Bazzi	University of Michigan	Modulation of Intestinal Microbiome Reassembly by Candida albicans Following Antibiotic Therapy
61.	Akanksha Malepati	University of Michigan Medical School	Establishment of a Mouse Model of Cryptococcal Meningoencephalitis Using a Highly Virulent Strain
62.	Arianna Creech	University of Michigan	Trehalose-6-Phosphate Synthase (*TPS1*) in *Cryptococcus neoformans* Contributes to Fungal Clearance in the Lungs by the Resident Lung Factors
63.	Rachel Bareis	University of Michigan-Ann Arbor	How the depletion of CD8 T-cells in mouse models inhibits immunopathology in patients infected with *Cryptococcus neoformans*
64.	Patrick Szygowski	University of Michigan-Ann Arbor	Impact of Regulatory T Cell Modulation on Pathogenesis of Cryptococcal Meningoencephalitis
65.	Mackenzie Sievert	University of Notre Dame	Quantitative trait loci mapping of combination drug treatments in 102 progeny of a *Plasmodium falciparum* genetic cross
66.	Carlos Ramirez-Flores	University of Wisconsin-Madison	The novel lipoxygenase of *Toxoplasma gondii* is essential for host immune response manipulation and survival in a mouse model
67.	Nicole Davis	University of Wisconsin-Madison	Mechanisms of linoleic acid-induced sexual development in *Toxoplasma gondii*
68.	Alexandra Sack	University of Notre Dame	Reducing food insecurity and infectious disease through rice-fish co-cultivation

69.	John Kane	University of Notre Dame	Role of various mutations in the *Plasmodium falciparum* AAT1 protein on chloroquine resistance and competitive fitness.
70.	Katie Barnes	University of Wisconsin-Madison	Reanalyzing the traditional 3-type virulence classification system of *Toxoplasma gondii*
71.	Megan Schmidt	University of Notre Dame	Geographical and chronological analysis of allele frequencies of malaria genotypes from the Greater Mekong Subregion
72.	Chandan Shah	The Ohio State University	Peroxisomes are important for the production of Siderophores in *Histoplasma*.
73.	Adnan Gopinadhan	Indiana University School of Medicine	Multiplicity of *Plasmodium falciparum* infections in asymptomatically infected children in Uganda
74.	Manuel Widuch	Loyola University of Chicago	*Plasmodium* SAXO-1 is a microtubule stabilizing protein with a role in schizont organization
75.	Gabriella Matheny	The Ohio State University	Testing aspartate availability in the *Histoplasma*-containing phagosome of macrophages
76.	Joshua Lain	University of Illinois at Urbana-Champaign	Role of nucleoporin in *Cryptosporidium parvum*
77.	Derek Pinto	University of Illinois at Urbana-Champaign	Understanding the molecular mechanisms that control the oocyst wall formation in *Cryptosporidium parvum*
78.	Julia Gattozzi	University of Notre Dame	Amphiphilic Gold Nanoparticles Enable Sustained Delivery of Hydrophobic Chemotherapeutics for the Treatment of Leishmaniasis
79.	Maria Nava	University of Illinois at Urbana-Champaign	Characterizing the role of a major facilitator superfamily transporter in *Cryptosporidium parvum*
80.	Kasturi Haldar	University of Notre Dame	Genotype-phenotype mapping of artemisinin-resistant kelch13 mutant parasites in *Plasmodium falciparum* malaria

Poster competition

There will be 8 “Best poster” awards, 4 for each fungal and parasite posters. The winning posters will receive a $200 award – either a gift card or in the form of a check (I’m still navigating the bureaucracy!).

The scoring criteria will involve the research’s question/hypothesis (is it stated and clearly mentioned), evaluation of the results, the overall organization and display, and the clarity of the presentation.

Good luck to all!