

## Program

8:30 AM	Registration and Poster Set-up
9:00 AM	Opening Remarks: <b>Dennis Kyle</b> , Director of CTEGD
	<b>SESSION 1 — Moderators:</b>
9:10 AM	<b>Justine Shiau</b> , Dept of Infectious Diseases, CTEGD, & Precision One Health, UGA <i>Plasmodium spp.</i> differential susceptibility to antimalarials targeting parasite mitochondria during the vector stages
9:30 AM	<b>Sabrina Pizarro</b> , EPIC & Department of Genetics and Biochemistry, Clemson University Exploration of putative sodium/proton exchangers in <i>Trypanosoma brucei</i>
9:50 AM	<b>Nana Charles-Chess</b> , CTEGD & Department of Cellular Biology, UGA Memory regulatory T cells protect against recurrent malaria by differentiating into follicular T helper-like cells
10:10 AM	<b>BREAK — POSTER VIEWING (even posters)</b>
	<b>SESSION 2 — Moderators:</b>
10:50 AM	<b>Saniya Sabnis</b> , CTEGD, CVI, & Dept. of Infectious Diseases, UGA Humoral immunity leads to control of chronic <i>Plasmodium</i> infections
11:10 AM	<b>INTRODUCTION OF EARLY CAREER SCHOLAR</b>
11:15 AM	<b>Fernanda Novais</b> , Dept. of Microbial Infection and Immunity, The Ohio State University College of Medicine Hypoxia and CD8 T cells in cutaneous leishmaniasis
12:10 PM	<b>LUNCH — POSTER VIEWING</b>
	<b>SESSION 3 — Moderators:</b>
1:10 PM	<b>Kaelynn Parker</b> , CTEGD & Dept. of Cellular Biology, UGA Same difference: An apicomplexan-specific extension in ATP synthase subunit f in <i>Toxoplasma gondii</i>
1:30 PM	<b>Joseph Dainis</b> , CTEGD & Department of Infectious Diseases, UGA Infection in the Collaborative Cross reveals differential susceptibility and resistance to <i>N. fowleri</i>
1:50 PM	<b>Derek Huck</b> , CTEGD & Department of Entomology, UGA Field-isolated bacteria support larval mosquito development under nutrient-limited conditions
2:10 PM	<b>Fiifi Agyabeng-Dadzie</b> , Department of Genetics, UGA Exploring the genome of a global pathogen: New insights into <i>Cryptosporidium parvum</i>
2:30 PM	<b>BREAK — POSTER VIEWING (odd posters)</b>
	<b>SESSION 4 — Moderators:</b>
3:10 PM	<b>Gonzalo Seminario-Mondejar</b> , Center for Tropical and Emerging Global Diseases, UGA Unraveling the enigmatic feeding apparatus of <i>Trypanosoma cruzi</i>
3:30 PM	<b>Alejandra Villegas Lopez</b> , University of Georgia A putative glycosyltransferase is required for <i>Plasmodium falciparum</i> asexual development
3:50 PM	<b>INTRODUCTION OF THE KEYNOTE SPEAKER</b>
4:00 PM	<b>Terrie Taylor</b> , Department of Osteopathic Medical Specialties, Michigan State University TBA
5:00 PM	Concluding Remarks: <b>Dennis Kyle</b>

## Poster Presentations

- P1 **Toya Tanner**, University of Georgia  
Resistance unraveled: Dissecting drug sensitivity and resistance mechanisms in *Cryptococcus neoformans*
- P2 **Surya Sekhar Pal**, Center for Inflammation, Immunity and Infection, Institute for Biomedical Science, Georgia State University  
Enhanced neutralizing antibodies and protection against RSV by new pre-fusion mRNA and subunit protein combination vaccines in mice
- P3 **Jillian McKeon**, EPIC & Department of Genetics and Biochemistry, Clemson University  
Enolase inhibitors as therapeutic agents for *Naegleria fowleri* infection
- P4 **Kenna Berg**, CTEGD & Department. of Infectious Diseases, CVM, UGA  
Modulation of host cell apoptosis by secreted effectors during *Toxoplasma gondii* infection
- P5 **Mayara Bertolini**, CTEGD & Department of Cellular Biology, UGA  
Essential roles of vacuolar transporter chaperones 1 and 4 in polyphosphate metabolism and *T. cruzi* infectivity
- P6 **Emily Bremers**, CTEGD & Department of Biochemistry and Molecular Biology, UGA  
Stereospecific resistance to N2-acyl tetrahydro- $\beta$ -carboline antimalarials is mediated by a PfMDR1 mutation that confers collateral drug sensitivity
- P7 **Perla Vazquez**, Center for Tropical and Emerging Global Diseases, UGA  
Conditioned media from differently virulent *Naegleria fowleri* differentially induces cytopathic effects over mammalian cell lines
- P8 **Watcharatip Dedkhad**, University of Georgia  
A *Plasmodium* transmembrane protein is essential for asexual segmentation of *Plasmodium falciparum*
- P9 **Clyde Schmidt-Silva**, University of Georgia  
Mechanism of antigen-presenting cell recruitment during liver-stage malaria
- P10 **Hannah Teddleton**, Department of Animal Science, University of Tennessee, Knoxville  
Parasite-resistant sheep exhibit metabolic efficiency after a *Haemonchus contortus* priming infection
- P11 **Samantha Gunasekera**, Center for Tropical and Emerging Global Diseases, UGA  
Uncovering the potential role of dsRNAs in *Cryptosporidium* gene regulation
- P12 **Anissa Waller Del Valle**, CTEGD & Department of Cellular Biology, UGA  
Development of a cell synchronization protocol for the brain-eating amoeba, *Naegleria fowleri*
- P13 **Abu Obyda**, Department of Molecular and Cellular Biology, Kennesaw State University  
Identification of targets, optimization and molecular pharmacology of NEU-4438 a quinolinimine lead against *Trypanosoma brucei*
- P14 **Reagan Haney**, CTEGD & Department of Biochemistry and Molecular Biology, UGA  
Identifying the mechanism of action of a novel antimalarial with collateral drug sensitivity associated with PfKelch13 C580Y mutation
- P15 **Guozhong Huang**, CTEGD & Department of Cellular Biology, UGA  
Chemical and genetic validation of an essential calcium entry channel of *Trypanosoma brucei* as a therapeutic target
- P16 **Victoria Mendiola**, Center for Tropical and Emerging Global Diseases, UGA  
Visualization and quantification of ART-induced dormant *P. falciparum* using cytoplasmic markers
- P17 **Corey Rennolds**, CTEGD & Department of Genetics, UGA  
Potency, plasticity, and diversity of stem cells in the rat tapeworm, *Hymenolepis diminuta*
- P18 **Baihetiya Baierna**, CTEGD & Department of Cellular Biology UGA  
Unique interactions between the succinate dehydrogenase and the ubiquinone biosynthesis complex in *Toxoplasma gondii*

- P19 **Rafeed Turjya**, Institute of Bioinformatics UGA  
The enigmatic mitochondrial genome of *Sarcocystis neurona*
- P20 **Colm Roster**, EPIC & Department of Genetics and Biochemistry, Clemson University  
Generating an episomally maintained transgene vector in *Naegleria fowleri*
- P21 **Aidan May**, Center for Tropical and Global Diseases, UGA  
Utilizing the ATP FRET sensor ATeam3.10 to quantify mitochondrial ATP concentration changes in *Toxoplasma gondii*
- P22 **Samuel Nyarko**, CTEGD & Department of Cellular Biology, UGA  
Exploring dedaquinine as an apicomplexan ATP synthase inhibitor
- P23 **Anthony Ruberto**, Center for Tropical and Emerging Global Diseases UGA  
Lead optimization and target identification of a new series of antimalarial compounds targeting *Plasmodium vivax* hypnozoites: opportunities and challenges
- P24 **Zhe Cheng**, CTEGD & Department of Cellular Biology, UGA  
Discovery and characterization of overlapping chromosome 10 copy number variance in multiple in vitro selected artemisinin resistant *Plasmodium falciparum*
- P25 **Nathan Chasen**, Department of Cellular Biology UGA  
Nested genes of apicomplexan parasites and a potential 'Tag-in-Place' strategy
- P26 **Wayne Cheng**, CTEGD & Center for Vaccines and Immunology, CVM, UGA  
Increased Duffy binding protein 1 expression correlates with *Plasmodium cynomolgi* growth in continuous culture
- P27 **Magdalena Argomaniz**, CTEGD & Center for Vaccines and Immunology, CVM, UGA  
A *Plasmodium vivax* strain that expresses fluorescent proteins throughout the life cycle
- P28 **Hannah Abbey**, EPIC & Department of Genetics and Biochemistry, Clemson University  
Resolving the function of the SET domain protein lysine methyltransferase in *Trypanosoma brucei*
- P29 **Katherine Moen**, CTEGD & Department of Cellular Biology, UGA  
Redox regulation of calcium homeostasis in *Toxoplasma gondii* for optimal lytic cycle progression
- P30 **Mackenzie Sievert**, Center for Tropical and Emerging Global Diseases, UGA  
Comprehensive QTL mapping in a Kelch13 wildtype *Plasmodium falciparum* genetic cross
- P31 **Ganesh Babu Malli Mohan**, Center for Tropical and Emerging Global Diseases, UGA  
Stage-specific and temperature-responsive control of protein stability in *Trypanosoma cruzi* using a DHFR destabilizing domain system
- P32 **Melissa Sleda**, Center for Tropical and Emerging Global Diseases, UGA  
Two historical 4(1H)-quinolone scaffolds have potent efficacy against acute and chronic stages of *Toxoplasma gondii*
- P33 **Benjamin Phipps**, Department of Genetics UGA  
Additional blood meals after infection increase fitness of malaria parasites and their mosquito host
- P34 **Chandler Lowe**, CTEGD & Department of Genetics, UGA  
Investigating Notch signaling in *Hymenolepis diminuta* segmentation
- P35 **James Oristian**, CTEGD & Department of Infectious Diseases, UGA  
Induced in vitro sexual commitment of *Plasmodium cynomolgi*
- P36 **Aylla von Ermland**, Center for Tropical and Emerging Global Diseases, UGA  
Investigating antigen diversification of *Trypanosoma cruzi* within a single-host infection
- P37 **Benjamin Hoffman**, Department of Cellular Biology, UGA  
A nuclear protein with YggF1 and SH2 domains regulates S-phase in *Trypanosoma brucei*
- P38 **Cierra Gladfelter**, CTEGD and Dept. of Genetics, UGA  
Understanding the role of *nanos* in germ cell development and regeneration in *Hymenolepis diminuta*

- P39 **Jose Saenz**, Center for Tropical and Emerging Global Diseases, UGA  
Understanding how *T. cruzi* infection is controlled in muscle
- P40 **Melissa Rogers**, CTEGD & Department of Cellular Biology, UGA  
Investigating the role of putative membrane contact site proteins in *Toxoplasma gondii*
- P41 **Nupur Kittur**, Center for Tropical and Emerging Global Diseases, UGA  
VEuPathDB: Tools for genomic-scale data exploration, analysis, integration and discovery
- P42 **Abdul Malik Hussein**, CTEGD & Department of Cellular Biology, UGA  
Membrane contact site assembly is required for VDAC-dependent mitochondrial calcium uptake In *Toxoplasma gondii*
- P43 **Ruby Harrison**, Center for Tropical and Emerging Global Diseases, UGA  
Preliminary characterization of two *Trypanosoma cruzi* isolates from northern Florida, U.S., suggests the potential for human infection
- P44 **Gaurav Kumar**, Department of Molecular and Cellular Biology, Kennesaw State University  
Tb927.8.2820, a target of NEU-4438, is important for endocytosis of transferrin and cell shape maintenance in *Trypanosoma brucei*
- P45 **Grace Vick**, CTEGD & Department of Infectious Diseases, UGA  
A SNARE-like *Plasmodium* rhoptry neck protein is required for sealing of the parasitophorous vacuole during merozoite invasion
- P46 **Katie Dillon**, Institute of Bioinformatics UGA  
Tick Genomes: Overcoming the limitations of tick biology with advancements in sequencing technology
- P47 **Amadis Vivas**, CTEGD & CVI, UGA  
Immunogenicity of a protein nanoparticle vaccine encoding the *Plasmodium falciparum* MIF protein in *Aotus nancymaae*
- P48 **Caroline Palmentiero**, EPIC & Department of Genetics and Biochemistry, Clemson University  
Establishment of transfection approaches in *Naegleria fowleri*
- P49 **Jose Maravi-Jaime**, Universidad Peruana Cayetano Heredia, Lima, Peru  
Differentially expressed genes in the in vitro activation of *Taenia solium* larvae by taurocholic acid
- P50 **Lamin Dibba**, Africa Centre of Excellence for Neglected Tropical Diseases & Forensic Biotechnology and Dept of Biochemistry, Faculty of Life Sciences, Ahmadu Bello University, Nigeria, Dept of Physical & Natural Sciences, University of the Gambia  
Development of a molecular detection and genotyping method for *Toxoplasma gondii*