Program

8:40 AM  Poster Set-up
9:00 AM  Opening Remarks: Dennis Kyle, Director of CTEGD

SESSION 1 — Alejandra Villegas & Logan Crowe
9:10 AM  Jennifer Dumaine, Department of Pathology, University of Pennsylvania
Cryptosporidium parvum Exports Proteins into the Cytoplasm of the Epithelial Host Cell
9:30 AM  Amrita Sharma, Department of Cellular Biology, University of Georgia
Modes of Action of NEU-4438, an Anti-Trypanosome Lead Drug

9:50 AM  Introduction of the Early Career Speaker: Dennis Kyle
9:55 AM  Emily Derbyshire, Assistant Professor of Chemistry, Duke University
Interdisciplinary Approaches to Reveal Plasmodium Parasite Vulnerabilities

10:45 AM  Poster Session I

SESSION 2 — Emma Troth & Edwin Pierre Louis
11:35 AM  Nupur Kittur, Center for Tropical & Emerging Global Diseases, University of Georgia
ClinEpiDB.org: Lowering the Barrier for Exploratory Data Analysis of Global Health Studies
11:55 PM  Gopinath Venugopal, Department of Microbiology & Immunology, University of Arkansas for Medical Sciences
mTOR Mediated Immune Cell Migration Leads to Immunopathology During Leishmania major Infection

12:15 PM  Watcharatip Dedkhad, Center for Tropical & Emerging Global Diseases, UGA
Regulation of the Egress Proteolytic Cascade in Malaria Parasites

12:35 PM  Lunch Break

SESSION 3 — Megna Tiwari & Alona Botnar
1:05 PM  Tamanash Bhattacharya, Department of Biology, Indiana University
Exploring the Impact of Endosymbiont-induced Viral RNA Methylation on Arbovirus Dissemination and Transmission
1:25 PM  Abigail Calixto, CTEGD and Dept. of Microbiology, University of Georgia
A Putative Calcium Proton Exchanger of Toxoplasma gondii
1:45 PM  Nathan Chasen, Center for Tropical & Emerging Global Diseases, UGA
A Trypanosoma cruzi Myosin Associated Regulatory Protein is Essential for Endocytosis via the Cytostome-Cytopharynx Complex

2:05 PM  Poster Session II

SESSION 4 — Melissa Sleda & Nathan Chasen
2:55 PM  Natasha Perumal, CTEGD and Dept. of Cellular Biology, University of Georgia
cGAS-STING Pathway Activation During Trypanosoma cruzi Infection Leads to Tissue-dependent Parasite Control
3:15 PM  Emily Ebel, Stanford University
Recurrent Duplication and Structural Mutation Generate Novel Antigenic Genes in the Malaria parasite P. falciparum

3:35 PM  Introduction of the Keynote Speaker: Vasant Muralidharan
3:40 PM  Daniel Goldberg, Distinguished Professor of Infectious Diseases at Washington University School of Medicine in St. Louis
Malaria Parasite Plasmepsins: Not Just Plain Old Degradative Pepsins
4:40 PM  Adjourn
Poster Presentations

To locate the poster: The first number of the Poster Number corresponds to the floor and the second number corresponds to table number.

P4-01 **J. Antonio Baeza**, Institute of Parasitology, Slovak Academy of Sciences
A First Look at the 'Repeatome' of *Benedenia humboldti*, a Major Pathogen in Yellowtail Aquaculture: Repetitive Element Characterization, Nuclear RNA Operon Assembly, and Microsatellite Discovery

P4-02 **Nilmar Silvio Moretti**, Laboratory of Molecular Biology of Pathogens, Federal University of São Paulo
Protein Acetylation as Key Regulator of *Leishmania* Parasite Stage Differentiation

P4-03 **Sevan N. Alwan**, Departments of Biochemistry and Structural Biology, University of Texas Health Science Center
Identification of Novel Therapeutics Against Human Schistosomiasis

P4-04 **Jaquan Harley**, Albright College
The *Vorticella convallaria* Contractile Vacuole

P4-05 **Maria Teresa González**, Instituto de Ciencias Naturales Alexander von Humboldt, Universidad de Antofagasta
Mitophylogenomics Reveals a New Cryptic Species of *Benedenia* Diesing, 1858 (Monogenea: Capsalidae), a Major Pathogen Infecting the Yellowtail Kingfish *Seriola lalandi* Valenciennes, 1833 in the South-east Pacific

P4-06 **Timothy J. Nessel**, Department of Biomedical Sciences, Iowa State University
A TurboID-based Compartmental Sensor for *Plasmodium falciparum*

P4-07 **Dulani Ruwanika K. Pathirage**, Department of Parasitology, University of Colombo
Molecular Markers COI and ITS2 Reveals the Presence of Gene Flow of Sand Flies in Sri Lanka

P4-08 **Renan Weege Achjian**, Universidade de São Paulo
Design and Implementation of a Metabolic Model for the Proline-Glutamate Pathway in *Trypanosoma cruzi*

P4-09 **Bryan E. Abuchery**, Department of Chemical and Biological Sciences, São Paulo State University
Generation of *T. cruzi* Lineages Knock-out for the Kinase IP6K and Evaluation of Homologous Recombination Repair Capacity

P4-10 **John Soghigian**, North Carolina State University
Island Hopper to Globe Trotter: Evidence for the Origins of *Aedes aegypti* in the Southwestern Indian Ocean

P4-11 **A. M. Murillo**, Department of Parasitology, University of São Paulo
The Cysteine Synthase Enzyme Plays an Important Role in the Biological Cycle of *Trypanosoma cruzi*

P4-12 **Susanne Warrenfeltz**, Center for Tropical and Emerging Global Diseases, UGA
VEuPathDB: Comprehensive Informatics Support for Your Research Needs

P5-01 **Azhar Ahmad**, MCARS, Jamia Millia Islamia
Role of AGC Family Kinases in the Endocytic Processes of the Parasite *Entamoeba histolytica*
P5-02 **Victoria Mendiola**, University of Georgia  
**Novel Mono- and Bis-peroxide Bridged Artemisinin Dimers Show Potency Against Artemisinin-resistant Plasmodium falciparum**

P5-03 **Arthur de O. Passos**, Dept. of Chemical and Biological Sciences, São Paulo State University  
**Preliminary Study of the Inositol Pyrophosphates Metabolic Pathway in Kinetoplastids: An Evolutionary Perspective**

P5-04 **L. Marchese**, Department of Parasitology, University of São Paulo  
**Characterization of Asparagine Transport and Consumption in Trypanosoma cruzi**

P5-05 **Gabriel A. Tafur-Gomez**, Universidad de Ciencias Aplicadas y Ambientales  
*Rhipicephalus sanguineus* s.l Transcriptome Analysis of Questing Larvae and Engorged Larvae from Four Different Ecological Systems of Colombia

P5-06 **FPL Leite**, Center for Technological Development, UFPe/Brazil  
**Evaluation of the Immunomodulation Mechanism of the Th2 Response in Mice Experimentally Infected with Toxocara canis**

P5-07 **Sabrina Marsicobetre**, Department of Parasitology, University of São Paulo  
**Elucidating the Importance of Branched Chain Amino Acids Catabolic Pathway Applying CRISPR-Cas9 Technology in Trypanosoma cruzi**

P5-08 **Emma Troth**, CTEGD and Dept. of Infectious Diseases, University of Georgia  
**A Novel Cytopathogenicity Assay Yields New Drug Intervention Strategies Against Naegleria fowleri, the Brain-eating Amoeba**

P5-09 **Micaele Quintana de Moura**, Parasitology Laboratory, Universidade Federal do Rio Grande  
**Protective Effect of Lactobacillus rhamnosus (ATCC 7469) on the Intestinal Mucosa of Mice Experimentally Infected with Toxocara canis**

P5-10 **Benjamin Hoffman**, Department of Cellular Biology, University of Georgia  
**A Casein Kinase Regulates DNA Synthesis and Basal Body Biogenesis in Trypanosoma brucei**

P5-11 **Débora Carvalho Rodrigues**, Parasitology Laboratory, Universidade Federal do Rio Grande  
**In silico Analysis of Naphthoxyrans Molecules with Activity Against Toxocara canis**

P5-12 **Miryam A. Hortua Triana**, Center for Tropical and Emerging Global Diseases, UGA  
**Characterization of an Endoplasmic Reticulum-Resident Calcium-binding Protein in Toxoplasma gondii**

P6-01 **A. Cassiopeia Russell**, CTEGD and Dept. of Infectious Disease, University of Georgia  
**Characterization of the Extracellular Vesicles Secreted by Naegleria fowleri**

P6-02 **Justin Wiedeman**, CTEGD and Dept. of Cellular, UGA  
**A Solution to the Challenge of Deciphering Protein Kinase Pathways in the Evolutionarily Divergent Microbe Trypanosoma brucei**

P6-03 **Luciana F C Avila**, Postgraduate Program in Health Sciences, FURG/Brazil  
**Saccharomyces boulardii Stimulates IL-17 in Mice Infected with Toxocara canis**
P6-04 **Madelaine Usey**, CTEGD and Dept. of Cellular Biology, University of Georgia
Identifying Apicomplexan ATP Synthase Regulators Using a Förster Resonance Energy Transfer (FRET) Sensor

P6-05 **Sabrina Elizabeth Cline**, CTEGD and Dept. of Cellular Biology, University of Georgia
Elucidating the Role of Inositol-tetrakisphosphate 1-kinase in *Trypanosoma cruzi*

P6-06 **Melanie Key**, Department of Biological Sciences, Clemson University
*T. gondii* Possesses a Functional Coproporphyrinogen Dehydrogenase for Its Heme Production

P6-07 **Yete G. Ferri**, Department of Chemical and Biological Sciences, São Paulo State University
Identification of the Target Proteins of Inositol Pyrophosphates in *Leishmania*: A Preliminary Study

P6-08 **Haziqah-Rashid**, Department of Evolution, Ecology and Behaviour, University of Liverpool
Do Arboviruses Manipulate Their Mosquito Vector’S Thermal Preference to Increase Transmission?

P6-09 **Manuel A. Fierro**, Department of Biomedical Sciences, Iowa State University
Identifying the Earliest Factors Required for Host Cell Subversion by *Plasmodium falciparum*

P6-10 **Mayara S. Bertolini**, CTEGD and Dept. of Cellular Biology, University of Georgia
Exploring the Relation Between MICU1 and MICU2 in *Trypanosoma cruzi* by Generation of TcMICU1-KO/TcMICU2-KO Cells

P6-11 **Edwin Pierre Louis**, CTEGD and Dept. of Cellular Biology, University of Georgia
Characterization of an Essential Golgi Localized Secreted Effector Binding Protein of *Toxoplasma gondii*

P6-12 **Logan P. Crowe**, Center for Tropical and Emerging Global Diseases, University of Georgia
Protein Polyphosphorylation and Aggregation by Inorganic Polyphosphate in Trypanosomes

P7-01 **L. Brock Thornton**, Department of Biological Sciences, Clemson University
Investigating *T. gondii* Vacuolar Compartment/Plant-like Vacuole Physiology via the Ratiometric GFP Reporter pHluorin2

P7-02 **Jillian Milanes**, EPIC and Dept. of Genetics and Biochemistry, Clemson University
Development of Transfection Approaches for Use in *Naegleria fowleri*

P7-03 **Subash Godar**, EPIC and Department of Physics and Astronomy, Clemson University
Functional Analysis Shows that Outer Dynein Arm Light Chain-2 is Essential for Directional Flagellar Motility in *Trypanosoma brucei*

P7-04 **David Anaguano-Pillajo**, University of Georgia
Identifying Proteins Required for Export of Effectors to the *Plasmodium falciparum* Infected Erythrocyte

P7-05 **Elisabet Gas-Pascual**, CTEGD and Dept. of Biochemistry & Molecular Biology, UGA
The Role of Oxygen-dependent Glycosylation on SCF (Skp1-Cullin-1-Fbox) Regulation in *Toxoplasma gondii*
P7-06 **Ruby E. Harrison**, Department of Entomology, University of Georgia
Simultaneous Ingestion of Carbohydrates and Proteins Induces Continuous Oogenesis in Mosquitoes

P7-07 **Lui P. Suzuki-Williams**, CTEGD and Department of Biochemistry and Molecular Biology, UGA
Analysis of *P. falciparum* Field Isolates for Mutations in the Chloroquine Resistance Transporter and Kelch13 Propeller Genes

P7-08 **Pooja Rani Mina**, CIMAP
Are Plant Derived Adjuvants Providing a Path in Thwarting Emerging Drug Resistant Malaria

P7-09 **Megna Tiwari**, CTEGD and Department of Biochemistry & Molecular Biology, UGA
Does a Novel *Toxoplasma gondii* O-fucosyltransferase Modulate the Localization of Target Proteins?

P7-10 **Katherine Wentworth**, EPIC and Department of Biological Sciences, Clemson University
Generation of *Trypanosoma brucei* CRISPR/Cas9 Knockouts to Understand the Role of Tubulin Post Translational Modification

P7-11 **Ifeoluwa Kayode Fagbohun**, University of Lagos
Molecular and Metabolic Resistance Mechanisms in Multiple Insecticides Resistant *Culex quinquefasciatus* Population from Lagos, Nigeria

P7-12 **Huan He**, Department of Microbiology, Molecular Genetics & Immunology, University of Kansas School of Medicine
Mechanisms of *Borrelia* Surface Lipoprotein Translocation Through the Outer Membrane

P8-01 **Jigneshkumar Mochi**, Central University of Gujarat
Adenylosuccinate Lyase and Adenylosuccinate Synthetase, Key Enzymes for Purine Salvage Pathway in *Leishmania donovani*

P8-02 **Alejandra Villegas**, University of Georgia
An Essential Fringe-Like Protein in the *Plasmodium falciparum* Asexual Life Cycle

P8-03 **Justine C. Shiau**, CTEGD and Department of Infectious Diseases, University of Georgia
*In vitro* hepatocyte culture of field-derived *Plasmodium falciparum*

P8-04 **Jiayan Zhang**, Dept. of Microbiology, Immunology & Molecular Genetics, Molecular Biology Institute, and California NanoSystems Institute, UCLA
Structure of the Trypanosome Paraflagellar Rod and Insights into Non-Planar Motility of Eukaryotic Cells

P8-05 **Sunil Kumar Narwa**, Div. of Molecular Parasitology & Immunology, CSIR-Central Drug Research Institute
The Malarial Stearoyl-coa Desaturase is Essential Only for Parasite Late Liver Stage Development

P8-06 **Beatriz Cristina Dias de Oliveira**, Dept. of Chemical & Biological Sciences, São Paulo State University
Study of the Effects of Telomerase RNA (TER) Knockout in *Leishmania major*
P8-07 **Charlie Franck Alfred Compaoré**, Centre International de Recherche-Développement sur l’Élevage en Zone Subhumide, Unité de Recherche sur les Maladies à Vecteurs et Biodiversité, Université Nazi Boni, Unité de Formation et de Recherche Sciences et Techniques
Analytical Sensitivity of Loopamp and Quantitative Real-time PCR on Dried Blood Spots and Their Potential Role in Monitoring Human African Trypanosomiasis Elimination

P8-08 **Ronald Andanje**, Albright College
Developing a *Crithidia* Parasite CURE (Course Undergraduate Research Experience) for Biochemistry Lab Using Metabolically Labelled 1-13C-Glucose and 13C-NMR

P8-09 **Nicholas C. Mucci**, Department of Microbiology, University of Tennessee-Knoxville
Chemical Ecology of an Apex Predator Life Cycle

P8-10 **Camila Gomez**, Department of Biology, Georgia State University
Intracellular Calcium Transport in *Crithidia fasciculata* is Regulated by the Mitochondrial Calcium Uniporter

P8-11 **Naixin Zhang**, University of Florida
Identification and Characterization of *Leishmania* PI3K Class 2 (LdPI3KC2) that Localizes to the *Leishmania* Parasitophorous Vacuole at the Host Parasite Interface

P8-12 **Aline C. A. Moreira-Souza**, Institute of Biophysics Carlos Chagas Filho Federal University of Rio de Janeiro
Contribution of Purinergic Signaling During *Toxoplasma gondii* Infection

P9-01 **Mark E. Shiburah**, Biosciences Institute of Botucatu, São Paulo State University
Regulation of Telomere Length and Telomerase Activity During the *Leishmania amazonensis* Developmental Cycle and Population Replication

P9-02 **Tahir Hussain**, Iowa State University
EXP2 is Important for Intrahepatic Parasite Development During the *Plasmodium* Liver-stage

P9-03 **Daniel Velez-Ramirez**, Department of Microbiology, Immunology & Molecular Genetics, UCLA
cAMP-dependent Phosphorylation of Flagellum Matrix Proteins in *Trypanosoma brucei*

P9-04 **Chahinez Bouguerche**, Faculté des Sciences Biologiques, Université des Sciences et de la Technologie Houari Boumediene et Institut Systématique Évolution Biodiversité, Muséum National d’Histoire Naturelle
Description of a New Species, *Microcotyle visa* (Monogenea: Microcotylidae), a Gill Parasite of *Pagrus Caeruleostictus* (Teleostei: Sparidae) Using Integrative Taxonomy

P9-05 **Eliza Lupenza**, Department of Parasitology & Medical Entomology, Muhimbili University of Health & Allied Sciences
Lymphatic Filariasis Elimination Status: *Wuchereria bancrofti* Infections in Human Populations and Factors Affecting Continued Transmission after Seven Rounds of Mass Drug Administration in Masasi District, Tanzania

P9-06 **Chahinez Bouguerche**, Faculté des Sciences Biologiques, Université des Sciences et de la Technologie Houari Boumediene et Institut Systématique Évolution Biodiversité, Muséum National d’Histoire Naturelle
Tell Me What You Eat, I Will Tell You What Are! A Study of a Hyperparasite *Cyclocotyla bellones* (Monogenea, Platyhelminthes) Using Integrative Taxonomy
P9-07 **Anna Gioseffi**, Microbiology and Cell Science, University of Florida
Extracellular Vesicles Released by *Leishmania donovani* Infected Macrophages Contain Parasite Molecules and May Contribute to Lesion Development and Immune Modulation

P9-08 **Melissa A. Sleda**, Department of Cellular Biology, University of Georgia
Targeting the Isoprenoid Pathway of the Apicomplexan Parasite *Toxoplasma gondii*

P9-09 **Tamar Feldman**, Stanford University
*Plasmodium* and the Bone Marrow: Uncovering Novel Host-parasite Interactions

P9-10 **Alona Botnar**, CTEGD and Department of Infectious Diseases, University of Georgia
Investigating the Role of Gibberellic Acid on Dihydroartemisinin-induced Dormant *Plasmodium falciparum*

P9-11 **Ayelen Lizarraga**, Instituto Tecnológico Chascomús, National Scientific and Technical Research Council-National University of San Martin
Adenine DNA Methylation, 3D Genome Organization, and Gene Expression in the Parasite *Trichomonas vaginalis*