

Program

- 8:15 AM REGISTRATION AND POSTER SET-UP
- 9:00 AM OPENING REMARKS: DENNIS KYLE, DIRECTOR OF CTEGD
- SESSION 1 — MODERATORS: ABIGAIL CALIXTO, JUSTINE SHIAU, ANNA GIOSEFFI**
- 9:10 AM **MELISSA SLEDA**, CETGD AND DEPT. OF CELLULAR BIOLOGY, UGA
THE MITOCHONDRIAL UBIQUINONE SYNTHESIS IS A NEW DRUG TARGET IN BOTH ACUTE AND CHRONIC STAGES OF *TOXOPLASMA GONDII*
- 9:30 AM **EMILY KNIGHT**, DEPT. OF GENETICS & BIOCHEMISTRY, CLEMSON UNIVERSITY
A NOVEL PEROXIN IS REQUIRED FOR MITOCHONDRIAL MORPHOLOGY: IMPLICATIONS FOR RESOLVING A NEW PEROXISOME-MITOCHONDRIAL CONTACT SITE
- 9:50 AM **MEGAN BEAUDRY**, CTEGD AND DEPT. OF ENVIRONMENTAL HEALTH SCIENCE, UGA
A NEW TARGETED LIBRARY ENRICHMENT APPLIED TO HUMAN INFECTING *CRYPTOSPORIDIUM* SSP. FOR WHOLE GENOME SEQUENCING
- 10:10 AM **BREAK — POSTER VIEWING (EVEN POSTERS)**
- SESSION 2 — MODERATORS: JUSTINE SHIAU, RUBY HARRISON, BENJAMIN PHIPPS**
- 10:50 AM **CAMILA MARQUES DA SILVA**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
TYPE 1 INTERFERONS DRIVE CELL-AUTONOMOUS DEFENSES WITHIN *PLASMODIUM*-INFECTED HEPATOCYTES
- 11:10 AM **INTRODUCTION OF EARLY CAREER SCHOLAR - BELEN CASSERA**
- 11:15 AM **FILIPA RIJO-FERREIRA**, UNIVERSITY OF CALIFORNIA, BERKELEY SCHOOL OF PUBLIC HEALTH
CIRCADIAN RHYTHMS IN PARASITIC DISEASES
- 12:10 PM **LUNCH — POSTER VIEWING**
- SESSION 3 — MODERATORS: MELISSA SLEDA, ABIGAIL CALIXTO, MEGNA TIWARI**
- 1:10 PM **GINA MARCELA GALLEG0-LOPEZ**, MORGRIDGE INSTITUTE FOR RESEARCH AND DEPT. OF MEDICAL MICROBIOLOGY & IMMUNOLOGY, UNIVERSITY OF WISCONSIN-MADISON
KISS AND SPIT METABOLOMICS HIGHLIGHTS THE ROLE OF THE HOST CN-II ENZYME ON PURINE METABOLISM DURING *TOXOPLASMA GONDII* INFECTION
- 1:30 PM **RUDO KIEFT**, DEPT. OF BIOCHEMISTRY & MOLECULAR BIOLOGY, UGA
PP1 REGULATES TRANSCRIPTION TERMINATION IN *LEISHMANIA MAJOR*
- 1:50 PM **BENJAMIN PHIPPS**, CTEGD AND DEPT. OF GENETICS, UGA
ECDYSTEROIDS SYNTHESIZED POST-BLOOD MEAL REGULATE EGG FORMATION IN THE INDIAN MALARIA VECTOR *ANOPHELES STEPHENSI*
- 1:50 PM **DAVID ANAGUANO**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
RHOPTRY NECK PROTEIN 11 PLAYS AN ESSENTIAL ROLE IN *P. FALCIPARUM* INVASION OF ERYTHROCYTES
- 2:30 PM **BREAK — POSTER VIEWING (ODD POSTERS)**
- SESSION 4 — MODERATORS: BENJAMIN PHIPPS, MEGNA TIWARI, MELISSA SLEDA**
- 3:10 PM **SABRINA ELIZABETH CLINE**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
ELUCIDATING THE ROLE OF INOSITOL-TETRAKISPHOSPHATE 1-KINASE IN *TRYPANOSOMA CRUZI*
- 3:30 PM **A. CASSIOPEIA RUSSELL**, CTEGD AND DEPT. OF INFECTIOUS DISEASES, UGA
CHARACTERIZATION OF THE EXTRACELLULAR VESICLES SECRETED BY *NAEGLERIA FOWLERI*
- 3:50 PM **INTRODUCTION OF THE KEYNOTE SPEAKER - VASANT MURALIDHARAN**
- 4:00 PM **PHILIPPE BASTIN**, TRYPANSOME CELL BIOLOGY UNIT, INSTITUT PASTEUR
SINGLE CELL RNA SEQUENCING REVEALS TRYPANSOME DEVELOPMENT IN THE SALIVARY GLANDS OF THE TSETSE FLY

Poster Presentations

- P1 **NICOLE KHAMSA**, THE UNIVERSITY OF GEORGIA
ESTABLISHING A REPORTER SYSTEM TO IDENTIFY MEMBRANE CONTACT SITE COMPONENTS BETWEEN THE APICOPLAST AND MITOCHONDRION OF *TOXOPLASMA GONDII*
- P2 **JUSTINE SHIAU**, THE UNIVERSITY OF GEORGIA
IN VITRO *PLASMODIUM FALCIPARUM* LIVER-STAGE BIOLOGY
- P3 **ASHLEY DOMBROWSKI**, DEPT. OF ENTOMOLOGY, UGA
EFFECTS OF COPROPHAGY ON BACTERIAL ACQUISITION AND COMPETITION IN TRIATOMINE KISSING BUGS
- P4 **VICTORIA MENDIOLA**, THE UNIVERSITY OF GEORGIA
VISUALIZATION AND QUANTIFICATION OF ARTEMISININ-INDUCED DORMANT AND DEAD *PLASMODIUM FALCIPARUM*
- P5 **ANDRÉS TIBABUZO PERDOMO**, DEPT. OF MEDICAL MICROBIOLOGY & IMMUNOLOGY, UNIVERSITY OF WISCONSIN - MADISON
HIDE AND SEEK: THE IMPORTANCE OF LIPOXYGENASES IN *TOXOPLASMA GONDII* FOR IMMUNE EVASION
- P6 **AYLLA ERMLAND**, DEPT. OF CELLULAR BIOLOGY, UGA
MODIFICATION OF DSDNA BREAK REPAIR MECHANISMS IN *TRYPANOSOMA CRUZI*
- P7 **ALEJANDRA VILLEGAS LOPEZ**, THE UNIVERSITY OF GEORGIA
BREAKING OUT: EGRESS OF MALARIA PARASITES REQUIRES A PUTATIVE GLYCOSYLTRANSFERASE
- P8 **EDWARD D'ANTONIO**, UNIVERSITY OF SOUTH CAROLINA BEAUFORT
THE ROLE OF PHE-337 IN *TRYPANOSOMA CRUZI* GLUCOKINASE: THERMODYNAMIC EVALUATION ON THE BINDING INTERACTION OF GLUCOSAMINE-BASED INHIBITORS
- P9 **NUPUR KITTUR**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
CLINEPIDB.ORG: AN OPEN ACCESS PLATFORM FOR SHARING AND EXPLORING GLOBAL HEALTH DATASETS
- P10 **EMILY BREMERS**, CTEGD AND DEPT. OF BIOCHEMISTRY & MOLECULAR BIOLOGY, UGA
ELUCIDATING THE MECHANISM OF RESISTANCE OF B-CARBOLINE DERIVATIVES
- P11 **REAGAN HANEY**, CTEGD AND DEPT. OF BIOCHEMISTRY & MOLECULAR BIOLOGY, UGA
IDENTIFICATION OF BETA-CARBOLINE DERIVATIVES ACTIVE AGAINST QUIESCENT ARTEMISININ-RESISTANT *PLASMODIUM FALCIPARUM* PARASITES
- P12 **WATCHARATIP DEDKHAD**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
THE REGULATION OF PROTEOLYTIC CASCADE IN EGRESS OF *PLASMODIUM FALCIPARUM*
- P13 **LASYA R. PENUMARTHI**, INSTITUTE OF BIOINFORMATICS, UGA
COMPARATIVE ANALYSES OF A NEWLY SEQUENCED AND ANNOTATED *C. MELEAGRIDIS* GENOME
- P14 **SUSANNE WARRENFELTZ**, THE UNIVERSITY OF GEORGIA
VEUPATHDB: OMICS SUPPORT FOR THE GLOBAL PARASITE, VECTOR AND FUNGAL RESEARCH COMMUNITIES
- P15 **MADELAINE USEY**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
CHARACTERIZING THE *T. GONDII* HOMOLOG OF ATPASE INHIBITORY FACTOR 1 (IF1)

- P16 **GRACE WOODS**, THE UNIVERSITY OF GEORGIA
FUNCTION OF CONSERVED TRANSMEMBRANE PROTEINS IN *PLASMODIUM* EGRESS
- P17 **ASH PATHAK**, CTEGD AND DEPT OF INFECTIOUS DISEASES, UGA
MALARIA@THESPOROCORE, WHERE MOSQUITOES ARE MORE THAN JUST A FLYING SYRINGE
- P18 **NATALIE WILSON**, DEPT. OF INFECTIOUS DISEASES, UGA
IDENTIFICATION OF NEW GENES AND PATHWAYS CONTRIBUTING TO IVERMECTIN HYPERSENSITIVITY AND RESISTANCE IN *C. ELEGANS* BASED ON TRANSCRIPTOMICS DATA FROM *B. MALAYI*
- P19 **CARISSA GILLILAND**, DEPT. OF ENTOMOLOGY, UGA
ROLES OF THE MICROBIOME IN IMMUNE SYSTEM FUNCTION IN KISSING BUGS
- P20 **RUI XIAO**, INSTITUTE OF BIOINFORMATICS, UGA
SINGLE-MOLECULE FULL-LENGTH ISO-SEQ DATA REVEAL AND HELP EXPLAIN *CRYPTOSPORIDIUM PARVUM*'S TRANSCRIPTIONAL LANDSCAPE
- P21 **CLAYTON PARKER**, THE UNIVERSITY OF GEORGIA
ANALYSIS OF THE PJW/PP1 COMPLEX INVOLVED IN RNA POL II TRANSCRIPTION TERMINATION IN TRYPANOSOMES
- P22 **NIA I. KEYES-SCOTT**, THE UNIVERSITY OF GEORGIA
UNDERSTANDING THE ROLE OF BACTERIAL SYMBIONT *R. RHODNII* IN KISSING BUG LIPID METABOLIC PHYSIOLOGY
- P23 **MAYARA S. BERTOLINI**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
PHOSPHOINOSITIDE PHOSPHOLIPASE C IS ESSENTIAL FOR THE INFECTIVE STAGES OF *TRYPANOSOMA CRUZI* BUT IS NOT INVOLVED IN THE SYNTHESIS OF INOSITOL PYROPHOSPHATES
- P24 **KATHERINE MOEN**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
PROTEIN DISULFIDE ISOMERASE OF *TOXOPLASMA GONDII*
- P25 **BAIHETIYA BAIERNA**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
CHARACTERIZATION OF TWO METHYLTRANSFERASES IN *TOXOPLASMA GONDII* UBIQUINONE BIOSYNTHESIS PATHWAY
- P26 **JAMES ORISTIAN**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
INDUCED IN VITRO SEXUAL COMMITMENT OF *PLASMODIUM CYNOMOLGI*
- P27 **LQLA FAGBAMI**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
SWEET DANGER: PROTEIN GLYCOSYLATION IN HUMAN MALARIA PARASITES
- P28 **ESSEL CHARLES-CHESS**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
MEMORY REGULATORY T CELLS OFFER PROTECTION FROM MALARIA REINFECTION
- P29 **AMRITA SHARMA**, DEPT. OF MOLECULAR & CELLULAR BIOLOGY, KENNESAW STATE UNIVERSITY
EVALUATION OF CARBAZOLE DERIVATIVES AS LEADS FOR HUMAN AFRICAN TRYPANOSOMIASIS DRUG DEVELOPMENT
- P30 **MSANO MANDALASI**, CTEGD, DEPT. OF BIOCHEMISTRY & MOLECULAR BIOLOGY, AND CCRC, UGA
OXYGEN-DEPENDENT REGULATION OF F-BOX PROTEINS IN *TOXOPLASMA GONDII*

- P31 **ABIGAIL CALIXTO**, CTEGD AND DEPT. OF CELLULAR BIOLOGY, UGA
A *TOXOPLASMA GONDII* CALCIUM/PROTON EXCHANGER AND ITS ROLE IN REGULATING ACIDIC Ca^{2+} STORES AND Ca^{2+} UPTAKE BY THE ENDOPLASMIC RETICULUM
- P32 **ANTHONY A RUBERTO**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
SINGLE-CELL RNA PROFILING OF *PLASMODIUM VIVAX*-INFECTED HEPATOCYTES REVEALS PARASITE- AND HOST-SPECIFIC TRANSCRIPTOMIC SIGNATURES AND THERAPEUTIC TARGETS
- P33 **MIRYAM ANDREA HORTUA**, CENTER FOR TROPICAL & EMERGING GLOBAL DISEASES, UGA
THE ROLE OF THE PHOSPHATIDYLINOSITOL PHOSPHOLIPASE C IN THE SYNTHESIS OF INOSITOL POLYPHOSPHATES OF *TOXOPLASMA GONDII*
- P34 **MOLLY BUNKOFSKE**, THE UNIVERSITY OF GEORGIA
EPITOPES IN THE GPI ATTACHMENT SIGNAL PEPTIDE OF *TRYPANOSOMA CRUZI* MUCIN PROTEINS GENERATE ROBUST BUT DELAYED AND NONPROTECTIVE CD8⁺ T CELL RESPONSES