318

ASSOCIATION OF A PROMOTER POLYMORPHISM IN THE GENE ENCODING INTERLEUKIN-12 P40 (IL12B) WITH CEREBRAL MALARIA IN A POPULATION LIVING IN BAMAKO

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(ACMCIP Abstract)

319

GENETIC DISSECTION OF DIFFERENTIAL GROWTH RATES IN *PLASMODIUM FALCIPARUM* IN CHLOROQUINE RESISTANT AND SENSITIVE PROGENY CLONES

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320

EVALUATION OF THE IMPACT OF HELMINTH CO-INFECTION ON MALARIA TRANSMISSION IN A MURINE MODEL

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321

TREATMENT WITH CHLOROQUINE INCREASES APOPTOSIS AND DECREASES IL-10 EXPRESSION IN BALB/C MICE INFECTED WITH *PLASMODIUM YOELII* 17XL

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(ACMCIP Abstract)

322

INVESTIGATING FACTORS PROMOTING ERYTHROCYTIC GROWTH OF *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

323

NEUROLOGICAL DEFICITS ASSOCIATED WITH CEREBRAL MALARIA IN INDIA

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(ACMCIP Abstract)

324

INDUCTION OF MAPK SIGNALING AND GENE EXPRESSION CHANGES IN SYNCYTIOTROPHOBLAST FOLLOWING BINDING OF CYTOADHERENT *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

325

NITRIC OXIDE SYNTHASE TYPE 2 PROMOTER POLYMORPHISM G-954C AND MALARIAL ANEMIA IN CHILDREN IN A RURAL HOLOENDEMIC AREA OF FALCIPARUM MALARIA

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(ACMCIP Abstract)

326

ASSOCIATION OF FCγ RECEPTOR IIA (CD32) POLYMORPHISM WITH MALARIAL ANEMIA AND HIGH-DENSITY PARASITEMIA IN INFANTS AND YOUNG CHILDREN

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(ACMCIP Abstract)

327

REGULATION OF ERYTHROID DEVELOPMENT IN CD34+ STEM CELLS IN RESPONSE TO *PLASMODIUM FALCIPARUM*-INDUCED INFLAMMATORY MEDIATORS

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(ACMCIP Abstract)

Malaria — Chemotherapy

328

COMPARATIVE EFFICACY OF CHLOROQUINE AND PYRIMETHAMINE-SULFADOXINE FOR UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AND IMPACT ON GAMETOCYTE CARRIAGE RATES IN UNDER-FIVE YEAR OLDS IN AN ENDEMIC AREA

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329

COMMUNITY'S PERCEPTIONS AND USE OF ANTIMALARIAL DRUGS IN THE HOME MANAGEMENT OF MALARIA IN RURAL TANZANIA

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330

VILLAGE BASED EDAT FOR MALARIA — THE EMERGENCY STRATEGY OF CHOICE FOR REMOTE AND HYPERENDEMIC VILLAGES IN CAMBODIA

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331

SEASONAL INTERMITTENT PREVENTIVE TREATMENT WITH ARTESUNATE AND SULFADOXINE PYRIMETHAMINE TO REDUCE MALARIA MORBIDITY IN SENEGALESE CHILDREN

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332

A CLINICAL TRIAL TO COMPARE THE EFFICACY OF INTRARECTAL VERSUS INTRAVENOUS QUININE IN THE TREATMENT OF CHILDHOOD CEREBRAL MALARIA IN UGANDA

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333

ANTIMALARIAL ACTIVITY OF HIV-1 PROTEASE INHIBITORS

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334

COMPARATIVE EFFICACY AND SAFETY OF QUININE AND ARTEMETHER IN THE TREATMENT OF SEVERE FALCIPARUM MALARIA

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Malaria — Diagnosis

335

FEASIBILITY OF URINE DIAGNOSIS FOR *PLASMODIUM FALCIPARUM*

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336

HIGH THROUGHPUT IDENTIFICATION OF THE PREDOMINANT MALARIA PARASITE CLONE IN COMPLEX BLOOD STAGE INFECTIONS USING AN OLIGONUCLEOTIDE LIGATION ASSAY

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Malaria — Drug Development

337

IN VITRO REVERSAL OF QUINOLINE RESISTANCE IN *PLASMODIUM FALCIPARUM* WITH DIHYDROETHANOANTHRACENE DERIVATIVES

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338

THE TOXICITY OF PYRROLOQUINAZOLINE AND ITS TETRA-ACETAMIDE ANALOG ASSOCIATED WITH THEIR ABSORPTION

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339

THE ROLE OF QUANTITATIVE WHOLE BODY AUTORADIOGRAPHY AND TISSUE DISSECTION TECHNIQUES IN THE EVALUATION OF TISSUE DISTRIBUTION AND METABOLIC PROFILES OF [14C] ARTESUNATE IN RATS

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340

TISSUE DISTRIBUTION, PHARMACOKINETICS, MASS BALANCE, AND ELIMINATION OF [14C]-ARTESUNATE IN RATS, AND PROTEIN BINDING WITH HUMAN AND RAT BLOOD AND PLASMA

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341

DIPHENYLAMINO-MODIFIED CHLOROQUINES THAT ARE EFFECTIVE AGAINST CHLOROQUINE RESISTANT MALARIA

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342

SYNTHESIS AND EVALUATION OF ANTIMALARIALS FORMED BY LINKING CHLOROQUINE TO DIBENZYLAMINES

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343

INDIVIDUAL BASED MODEL AND SIMULATION OF *PLASMODIUM FALCIPARUM IN VITRO* CULTURES

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(ACMCIP Abstract)

344

LC/MS ANALYSIS OF ARTESUNATE AND DIHYDROARTEMISININ IN PLASMA FOLLOWING A SINGLE STEP PROTEIN PRECIPITATION

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345

***IN VIVO* DRUG INTERACTION STUDIES OF ARTESUNATE USING RHESUS MONKEYS AND LC/MS ANALYSIS**

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346

***IN SILICO* 3D PHARMACOPHORE MODEL FOR CHALCONE TO AID THE DESIGN AND SYNTHESIS OF NOVEL ANTIMALARIAL THERAPEUTICS**

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347

QSAR STUDIES OF BACTERIAL ENOYL ACYL CARRIER PROTEIN REDUCTASE (FABI)

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348

DATABASE MINING AND ITERATIVE SCREENING IN THE SEARCH OF SELECTIVE INHIBITORS OF THE PLASMODIAL CYCLIN DEPENDENT PROTEIN KINASES (CDKS)

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349

ANTI-PLASMODIUM ACTIVITY OF IMIDAZOLE-DIOXOLANE COMPOUNDS

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350

ARTESUNATE ADMINISTERED INTRAVENOUSLY TO RHESUS MONKEYS (MACACA MULATTA): A NEUROLOGY AND NEUROPATHOLOGY STUDY. I. THE MEDULLA OBLONGATA, PONS, AND CEREBELLUM

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351

ARTESUNATE ADMINISTERED INTRAVENOUSLY TO RHESUS MONKEYS (MACACA MULATTA): A NEUROLOGY AND NEUROPATHOLOGY STUDY. III. BRAINSTEM AUDITORY AND VISUAL SYSTEMS NUCLEAR GROUPS

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352

ARTELINATE ADMINISTERED INTRAVENOUSLY TO RHESUS MONKEYS (MACACA MULATTA): A NEUROLOGY AND NEUROPATHOLOGY STUDY. I. THE MEDULLA OBLONGATA, PONS, AND CEREBELLUM

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353

IN VITRO ANTIMALARIAL ACTIVITY OF 4(1H)-PYRIDONE DERIVATIVES

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354

THERAPEUTIC EFFICACY OF 4(1H) PYRIDONES IN A *PLASMODIUM YOELII* MURINE MODEL OF MALARIA, PRELIMINARY TOXICITY AND THERAPEUTIC WINDOW IN MICE

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355

COMBINATION STUDIES OF 4(1H)-PYRIDONE DERIVATIVES WITH OTHER ANTIMALARIAL DRUGS

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356

STAGE SPECIFIC EFFECTS OF ANTIMALARIAL 4(1H)-PYRIDONES

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357

SINGLE-DOSE PHARMACOKINETIC CHARACTERIZATION STUDIES IN MICE AND BEAGLE DOGS OF A NEW FAMILY OF ANTIMALARIAL AGENTS

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358

TARGETING BETA-KETOACYL ACP SYNTHASE III (KASIII) INHIBITORS TO DISRUPT FATTY ACID BIOSYNTHESIS IN *PLASMODIUM FALCIPARUM*

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Malaria — Drug Resistance

359

ESSENTIAL OILS: NEW TOOL TO COMBAT TROPICAL DISEASES?

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360

GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM* INFECTIONS AND THE PRESENCE OF MEROZOITE SURFACE PROTEIN 1 AND 2 IN SYMPTOMATIC MALARIA CHILDREN IN THE KINTAMPO DISTRICT OF GHANA: A BASELINE STUDY

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(ACMCIP Abstract)

361

USEFULNESS OF THE PFCRT T76 GENOTYPE FAILURE INDEX (GFI) FOR THE ESTIMATION OF *IN VIVO* CHLOROQUINE RESISTANCE IN BURKINA FASO

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362

THE CHLOROQUINE ASSESSMENT OUTCOME IN THE TREATMENT OF ACUTE UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AND THE PREVALENCE OF DRUG RESISTANCE MUTATIONS IN GEZIRA -CENTRAL SUDAN

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363

GEOGRAPHIC DISTRIBUTION OF PFMDR1 MUTATIONS AND COPY NUMBER IN CAMBODIA

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364

ACT AND POLYMORPHISM OF *PFATP6* AND *PFTCTP* GENES IN THREE ENDEMIC COUNTRIES: CAMBODIA, FRENCH GUYANA, SENEGAL

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365

GENOME-WIDE SIGNIFICANCE LEVEL FOR LINKAGE ANALYSIS IN *PLASMODIUM FALCIPARUM*

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366

ANTIMALARIAL DRUG RESISTANCE TESTING WITH AFFORDABLE, FIELD-FEASIBLE TECHNOLOGY

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367

ANTIMALARIAL DRUG RESISTANCE IN ISIOLO, KENYA

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368

ASSOCIATION OF SINGLE NUCLEOTIDE POLYMORPHISMS IN THE DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE GENES WITH SULFADOXINE-PYRIMETHAMINE (SP) RESISTANCE IN *PLASMODIUM FALCIPARUM* IN THE AMAZON REGION OF PERU

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369

ORIGIN AND DISSEMINATION OF CHLOROQUINE-RESISTANT *PFCRT* ALLELES IN PAPUA NEW GUINEA, INDONESIA, AND INDIA

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370

PILOT STUDY OF SULFADOXINE-PYRIMETHAMINE RESISTANCE USING A NOVEL METHOD TO ANALYZE MIXED INFECTIONS

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371

MOLECULAR MARKERS OF RESISTANCE IN *PLASMODIUM FALCIPARUM* AND *IN VIVO* OUTCOMES OF CHLOROQUINE OR FANSIDAR TREATMENTS FOR UNCOMPLICATED FALCIPARUM MALARIA IN YOUNG CHILDREN OF NORTHERN GHANA

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(ACMCIP Abstract)

Malaria — Epidemiology

372

COMMUNICATING RESEARCH RESULTS TO RURAL WOMEN IN AFRICA: A CASE STUDY OF DEMAND CREATION FOR INSECTICIDE TREATED NETS

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373

FIELD ASSESSMENT OF THE BEST STRATEGIES TO INCREASE ACCESS AND COVERAGE OF INSECTICIDE-TREATED NETS (ITNS) IN TWO MALARIA-PRONE DISTRICTS IN WESTERN KENYA

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374

PREVALENCE OF AND RISK FACTORS FOR PERIPHERAL MALARIA PARASITEMIA AND ANEMIA AMONG ANTENATAL CLINIC ATTENDEES IN KISUMU, WESTERN KENYA

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375

EPIDEMIOLOGY OF MALARIA IN AN AREA OF LOW MALARIA TRANSMISSION IN CENTRAL INDIA

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376

ASSOCIATION OF MALARIA WITH CLIMATIC FACTORS AND ENVIRONMENTAL FACTORS IN THE BIGGEST PILGRIM TOWN OF SOUTH INDIA

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377

EPIDEMIOLOGY OF MALARIA IN AN AREA OF STABLE MALARIA TRANSMISSION IN CENTRAL INDIA

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378

RECENT ANTIMALARIAL TREATMENT AMONG KENYAN ADULTS PRESENTING TO CLINICS WITH POSITIVE MALARIA SMEARS.

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379

MALARIA SUSCEPTIBILTY AND MULTIPLE ERYTHROCYTE POLYMORPHISMS IN PAPUA NEW GUINEA

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380

BURDEN OF HIV ASSOCIATED MALARIA ON PREGNANT WOMEN IN FEDERAL MEDICAL CENTRE IN OWERRI IMO STATE NIGERIA

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381

A CASE-CONTROL STUDY EXAMINING RECENT ANTI-MALARIAL USE AMONG PATIENTS ADMITTED WITH MALARIA AND OTHER FEBRILE ILLNESSES IN KENYA

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382

MOLECULAR EPIDEMIOLOGY OF *PLASMODIUM VIVAX* IN THE STATE OF AMAZONAS, BRAZIL

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(ACMCIP Abstract)

383

RECENT MALARIA EPISODE IN GALAG VILLAGE OF SOUTHERN INDIA HAS BECOME A CAUSE OF CONCERN

Basavaraj Madhusudhan, N. P. Aditya, B. N. Vageesh, H. K. Thyagaraj, Ravi B. Madhusudhan

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384

AN EVALUATION OF SOCIO-ECONOMIC FACTORS ASSOCIATED WITH MALARIA IN ZAMBIA

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385

LONGITUDINAL STUDY OF THE COMPLEXITY OF *PLASMODIUM FALCIPARUM* INFECTIONS IN CHILDREN IN WESTERN KENYA

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386

IN VITRO ACTIVITY OF PYRIMETHAMINE-RESISTANT DIHYDROFOLATE REDUCTASE ENZYMES OF *P. FALCIPARUM*

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387

POLYMORPHISM IN MEROZOITE SURFACE PROTEIN 1 OF *PLASMODIUM VIVAX* POPULATION IN THAILAND CORRELATES WITH MALARIA ENDEMICITY

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(ACMCIP Abstract)

388

CHARACTERIZATION OF MALARIA IN MESOENDEMIC AREA IN WESTERN INDONESIA

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Malaria — Immunology

389

EXPRESSION OF CYCLOOXYGENASE IN PLACENTAL MALARIA BY REAL TIME PCR

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(ACMCIP Abstract)

390

THE GNBP GENE FAMILY AND ITS ROLE IN THE INNATE IMMUNE SYSTEM OF *ANOPHELES GAMBIAE* AND IN ANTI-*PLASMODIUM* DEFENSE

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391

THE INTEGRIN CD103 PLAYS AN IMPORTANT ROLE IN PROTECTION WITH THE MALARIA IRRADIATED SPOROZOITE VACCINE

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392

INFECTION-INDUCED CYTOKINE PRODUCTION INFLUENCES PROTECTION AGAINST BLOOD-STAGE MALARIA IN MICE IMMUNIZED WITH MEREZOITE SURFACE PROTEIN-8

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(ACMCIP Abstract)

393

CYTOKINE-ASSOCIATED MORBIDITY AMONG *PLASMODIUM FALCIPARUM* INFECTED CHILDREN UNDER THE AGE OF SIX

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(ACMCIP Abstract)

394

SUPPRESSION IL-12 IN CHILDREN WITH SEVERE MALARIAL ANEMIA OCCURS THROUGH HEMOZOIN-INDUCED OVERPRODUCTION OF IL-10

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(ACMCIP Abstract)

395

EOSINOPHIL CATIONIC PROTEIN (ECP) 434 G/C POLYMORPHISM IN THE FULANI AND THE DOGON FROM MALI, WEST AFRICA

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(ACMCIP Abstract)

396

CELLULAR IMMUNE RESPONSE TO *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN AND SUSCEPTIBILITY TO INFECTION AMONG PAPUA NEW GUINEAN CHILDREN

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Malaria — Molecular Biology

397

DISSECTING: THE TRANSLATIONAL MACHINERY OF *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

398

A HIGH-THROUGHPUT METHOD FOR GENOTYPING THE 19KDA REGION OF *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 1 (MSP-1) USING ALLELE FREQUENCY DETERMINATION AND HAPLOTYPE ESTIMATION

Shannon L. Takala[1], David L. Smith[2], Drissa Coulibaly[3], Mahamadou A. Thera[3], Amed Ouattara[1], Colin Stine[1], Ogobara Doumbo[3], Christopher Plowe[1]

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(ACMCIP Abstract)

399

IDENTIFYING BINDING RESIDUES IN THE *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN LIGAND DOMAIN

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(ACMCIP Abstract)

400

EXPRESSION AND PRELIMINARY ANALYSIS OF THE LIGAND DOMAINS OF MAEBL

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(ACMCIP Abstract)

401

MORPHOLOGICAL EFFECTS OF ARTEMISININ TREATMENT ON THE *PLASMODIUM FALCIPARUM* DIGESTIVE VACUOLE

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402

GENE CONVERSION AND EXTENSIVE POLYMORPHISM OF THE RHOPH1/CLAG FAMILY MEMBERS IN *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

403

EXTENSIVE GENETIC POLYMORPHISM AND HIGH PREVALENCE OF MOLECULAR MARKERS FOR DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* IN DIFFERENT ENDEMIC AREAS OF ZIMBABWE

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(ACMCIP Abstract)

404

MOLECULAR FUNCTION OF A TRANSLATIONAL REGULATOR DURING GAMETOCYTOGENESIS OF THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

405

CLONING, EXPRESSION AND *IN VITRO* ANALYSIS OF DIHYDROOROTASE FROM *PLASMODIUM FALCIPARUM*

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406

GENETIC DIVERSITY OF MEROZOITE SURFACE PROTEIN 1 OF *PLASMODIUM VIVAX* ISOLATES FROM THE REPUBLIC OF KOREA

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407

GENETIC ANALYSIS OF DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE OF *PLASMODIUM VIVAX* ISOLATES FROM THE REPUBLIC OF KOREA

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Malaria — Vaccines

408

BINDING OF PLASMA FROM CHILDREN LIVING IN A MALARIA ENDEMIC AREA TO INHIBITORY AND BLOCKING EPITOPES ON MSP-1_{19} OF *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

409

ANTIGENICITY AND IMMUNOGENICITY OF THE N-TERMINAL 33 KDA PROCESSED FRAGMENT OF THE *P. FALCIPARUM* MSP1-42: IMPLICATIONS FOR VACCINE DEVELOPMENT

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410

IMMUNOGENICITY AND PROTECTIVE EFFICACY IN AOTUS MONKEYS OF RECOMBINANT *PLASMODIUM FALCIPARUM* MSP142 AND EBP2/ BAEBL RII PROTEIN VACCINES

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(ACMCIP Abstract)

411

CPG BINDING TO MALARIA VACCINE CANDIDATES: INTERACTIONS AND IMMUNE RESPONSES

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412

PRODUCTION, BIOCHEMICAL ANALYSIS AND BIOLOGICAL ACTIVITY OF A RECOMBINANT *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 3

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(ACMCIP Abstract)

413

ENHANCEMENT OF DNA-INDUCED IMMUNITY TO MALARIA BY FC RECEPTORS

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414

MONTANIDE ISA 51 VACCINES: PROTECTING ANTIGENS FROM MODIFICATION, QUALITY CONTROL OF EMULSIONS, AND COMPARATIVE IMMUNOGENICITY OF VACCINE FORMULATIONS

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415

HIGH-THROUGHPUT SCREENING FOR ASEXUAL BLOOD STAGE *PLASMODIUM FALCIPARUM* VACCINE CANDIDATES

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416

TOWARD DEVELOPMENT OF A MULTI-VALENT MULTI-STAGE ADENOVIRUS-BASED VACCINE AGAINST MALARIA

Joseph T. Bruder[1], Keith Limbach[2], Duncan McVey[1], Maureen E. Stefaniak[2], Ping Chen[1], Noelle Patterson[2], Damodar Ettyreddy[1], Joseph J. Campo[2], C. Richter King[1], Thomas L. Richie[2], **Denise L. Doolan**[2]

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(ACMCIP Abstract)

417

PROFILING THE HUMORAL IMMUNE RESPONSE TO *PLASMODIUM FALCIPARUM* INFECTION IN HUMANS USING PROTEOME MICROARRAY CHIPS

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(ACMCIP Abstract)

418

CHARACTERIZATION OF VACCINE INDUCED ANTI-REPEAT ANTIBODIES USING A TRANSGENIC PARASITE EXPRESSING *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE REPEATS

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(ACMCIP Abstract)

419

A QUANTITATIVE SLOT BLOT ASSAY FOR BACTERIAL HOST CELL PROTEIN IMPURITIES IN RECOMBINANT PROTEINS EXPRESSED IN *E. COLI*

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420

ANTIGENICALLY CONSERVED EPITOPES BETWEEN *PLASMODIUM FALCIPARUM* AND *PLASMODIUM YOELII* BLOOD-STAGE PARASITES

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(ACMCIP Abstract)

Malaria — Vector Biology and Malaria Transmission

421

COMPARATIVE SUSCEPTIBILITY OF WILD-CAUGHT (F1) AND LABORATORY COLONIZED MOSQUITOES TO *PLASMODIUM VIVAX* IN THAILAND

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422

SUCCESSFUL INTEGRATION OF INSECTICIDE-TREATED BEDNET DISTRIBUTION AND MASS DRUG ADMINISTRATION IN CENTRAL NIGERIA

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423

NITROQUINE ACETATE-INDUCIBLE MELANIZATION OF *PLASMODIUM YOELII* OOCYSTS IN THE MIDGUT OF *ANOPHELES STEPHENSI* AND POTENTIAL MECHANISM

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424

MALARIA TRANSMISSION ENTOMOLOGIC PARAMETERS ON A MALARIA VACCINE TRIAL SITE AND ITS SURROUNDING VILLAGES IN A SUDAN SAVANNAH AREA OF MALI

Adama Dao, Ibrahim Moussa Sissoko, Moussa Diallo, Abdoulaye Adamou, Alpha Seydou Yaro, Guimogo Dolo, Alassane Dicko, Sékou Fantamady Traoré, Ogobara K. Doumbo

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Mosquitoes — Biochemistry and Molecular Biology

425

STUDY ON MECHANISM OF DELTAMETHRIN RESISTANCE IN THE MOSQUITO, *ANOPHELES ANTHROPOPHAGUS*

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(ACMCIP Abstract)

426

THE EFFECT OF BLOOD FEEDING AND EXOGENOUS SUPPLY OF L-TRYPTOPHAN ON THE SALIVARY GLAND QUANTITY OF XANTHURENIC ACID IN *ANOPHELES STEPHENSI* (DIPTERA: CULICIDAE)

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(ACMCIP Abstract)

427

DIPHENOL OXIDASE-A2 IN THE MALARIA VECTOR MOSQUITO *ANOPHELES GAMBIAE* AND THE FRUIT FLY *DROSOPHILA MELANOGASTER*: DOES IT REGULATE MELANIN PRODUCTION?

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428

IDENTIFICATION OF HETEROGENEOUS SEQUENCES AT THE DISTAL END OF THE 5'UTRS OF INHIBITOR OF APOPTOSIS PROTEIN 1 CDNA FROM *AEDES* AND *CULEX* SP. MOSQUITOES

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429

MOSQUITOES EVOLVE TWO ALANINE GLYOXYLATE AMINOTRANSFERASES WITH DIFFERENT SUBSTRATE SPECIFICITY AND EXPRESSION PROFILE

Jianyong Li, Qian Han, Seong Ryul Kim, Yi Gui Gao, Howard Robinson, Haizhen Ding, Scott Wilson

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430

A MULTIPLEX TAQMAN REAL TIME RT-PCR FOR IDENTIFICATION AND QUANTIFICATION OF CRYPTIC SPECIES OF THE CULEX PIPIENS COMPLEX IN NORTH AMERICA

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431

EFFECT OF PLASMODIUM BERGHI INFECTION ON ANOPHELES GAMBIE MIDGUT RESPONSES TO OXIDATIVE STRESS

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432

GAMBOL AND TC1 ARE TWO DISTINCT FAMILIES OF DD34E TRANSPOSONS: ANALYSIS OF THE ANOPHELES GAMBIAE GENOME EXPANDS THE DIVERSITY OF THE IS630-TC1-MARINER SUPERFAMILY

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433

DIAPAUSE-SPECIFIC GENE EXPRESSION IN ADULTS OF THE NORTHERN HOUSE MOSQUITO, *CULEX PIPIENS* L., IDENTIFIED BY SUPPRESSIVE SUBTRACTIVE HYBRIDIZATION

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434

SUSCEPTIBILITY STATUS OF *ANOPHELES GAMBIAE* SL. TO PYRETHROIDS, ORGANOPHOSPAHATES, CARBAMATES AND DDT IN HOHOE DISTRICT, VOLTA REGION, GHANA

Samuel C. Kahindi[1], Michael D. Wilson[1], Wilfred S. Gbewonyo[2], Maxwell Appawu[1], Daniel A. Boakye[1]

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Mosquitoes — Molecular Genetics

435

DEVELOPMENT OF MICROSATELLITE MARKERS FOR WNV VECTOR CULEX TARSALIS AND PRELIMINARY ANALYSIS OF POPULATION GENETIC STRUCTURE IN CALIFORNIA

Meera Venkatesan, Catherine J. Westbrook, Michael Petridis, Jason L. Rasgon

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436

MALARIA TRANSMISSION AND OCCUPATIONAL RISK FACTORS IN RURAL SOUTH WESTERN VIETNAM

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(ACMCIP Abstract)

437

ESTABLISHMENT OF ROBUST SALIVARY GLAND-SPECIFIC TRANSGENE EXPRESSION SYSTEM IN ANOPHELINE MOSQUITOES

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(ACMCIP Abstract)

438

DISTRIBUTION OF MOSQUITOES IN THE CULEX (CULEX) PIPIENS COMPLEX IN MEXICO CITY, MEXICO

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439

PHYSICAL MAPPING OF THE *ANOPHELES STEPHENSI* GENOME

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440

MICROSATELLITE AND LIFE HISTORY ANALYSIS OF THE *CULEX PIPIENS* COMPLEX IN THE EASTERN UNITED STATES

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441

SELECTION AND THE ORIGIN OF INCIPIENT SPECIES WITHIN THE AFRICAN MALARIA MOSQUITO, *ANOPHELES GAMBIAE*

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442

IDENTIFICATION OF THE GENE INFLUENCING AUTOGENY IN *AEDES ALBOPICTUS*

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443

SUSCEPTIBILITY TO INSECTICIDES AND MOLECULAR CHARACTERIZATION OF THE COMPLEX ANOPHELES GAMBIAE IN BANAMBANI AND PIMPERENA, MALI (WEST AFRICA)

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444

AGEING IN *ANOPHELES* MOSQUITOES: MECHANISMS AND MARKERS

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Mosquitoes — Vector Biology

445

IDENTIFICATION OF MAMMALIAN BLOOD MEALS IN MOSQUITOES BY A MULTIPLEXED POLYMERASE CHAIN REACTION TARGETING CYTOCHROME B

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(ACMCIP Abstract)

446

DENGUE-2 AND YELLOW FEVER VIRUSES INDUCE GENE EXPRESSION CHANGES IN THE MIDGUT OF THE DISEASE VECTOR, *AEDES AEGYPTI*

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447

AEDES AEGYPTI VECTOR COMPETENCE AND GENE FLOW IN THE STATE OF VERACRUZ, MEXICO

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448

EVIDENCE FOR THE EXISTENCE OF A REGION SPECIFIC SEMIOCHEMICAL FOR OVIPOSITION IN ANOPHELES GAMBIAE S.S. (DIPTERA: CULICIDAE) AND ITS IMPLICATIONS FOR MALARIA VECTOR CONTROL

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449

AEDES AEGYPTI VECTOR COMPETENCE AND GENE FLOW IN THE STATE OF VERACRUZ, MEXICO

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450

ADAPTATION OF THE CENTERS FOR DISEASE CONTROL AND PREVENTION BOTTLE BIOASSAY FOR INSECTICIDE RESISTANCE AND EFFICACY MONITORING IN THE PERUVIAN AMAZON

Elvira Zamora[1], Wagner Orellana[1], Carlos Alvarez[1], Roberto Fernandez[2], Carmen Flores[2], Rosario Balta[3], Miriam Palomino[3], Pablo Villaseca[3], Rosa Mosqueda[3], Gregor Devine[4], Jeff Stancil[2]

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451

THE RELATIONSHIP BETWEEN FEMALE SIZE AND EGG BATCH SIZE DOES NOT VARY BETWEEN THE MOLECULAR FORMS OF *ANOPHELES GAMBIAE S.L.* IN MALI

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452

USING A DYNAMIC HYDROLOGY MODEL TO QUANTIFY SEASONAL CHANGES IN BREEDING HABITAT PREFERENCES OF *ANOPHELES* LARVAE IN WESTERN THAILAND

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453

MICROFILARIAE FROM PASSERINE BIRDS PENETRATE THE MIDGUTS OF FLOODWATER MOSQUITOES: IMPLICATION FOR MICROFILARIAL ENHANCEMENT OF EARLY SEASON WEST NILE VIRUS TRANSMISSION WITHIN THE RED RIVER VALLEY OF MINNESOTA AND NORTH DAKOTA

Christina M. Brewer, Jeffrey A. Bell, LeAnne Froese, Amber Basting, Vasyl V. Tkach, Jefferson A. Vaughan

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454

THE EFFECT OF DEFORESTATION ON THE HUMAN-BITING RATE AND LARVAL BREEDING SITES OF ANOPHELES DARLINGI, THE PRIMARY VECTOR OF FALCIPARUM MALARIA IN THE PERUVIAN AMAZON

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455

NORMAL MOVEMENT PATTERNS OF *AEDES AEGYPTI* INTO AND OUT OF THE EXPERIMENTAL HUTS IN THAILAND

Wannapa Suwonkerd[1], Piti Mongkalangoon[2], John Grieco[3], Nicole Achee[3], Donald Roberts[3], Robert Farlow[4], Atchariya Parbaripai[5], Theeraphap Chareonviriyaphap[2]

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456

CHEMICAL EMISSIONS FROM BACTERIA ASSOCIATED WITH LARVAL HABITAT OF *ANOPHELES GAMBIAE* (DIPTERA: CULICIDAE) REDUCED RATHER THAN ENHANCED OVIPOSITION ON AGAR SUBSTRATES

Juan Huang, James R. Miller, Shicheng Chen, Edward D. Walker

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457

HUMAN AND ENVIRONMENTAL FACTORS AFFECTING *AEDES AEGYPTI* DISTRIBUTION IN AN ARID URBAN REGION

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458

TRANSGENE DISPERSAL AND ELIMINATION IN MOSQUITO POPULATIONS BY MULTI-LOCUS DIFFUSION (MLD)

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459

ENHANCED STRESS TOLERANCE IN DIAPAUSING ADULTS OF *CULEX PIPIENS*

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460

DEVELOPMENT OF A MOLECULAR ASSAY TO DETECT PREDATION EVENTS ON ANOPHELES GAMBIAE COMPLEX LARVAL STAGES

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461

ADVANCES TOWARD THE CONTROL OF *ANOPHELES ARABIENSIS* BY THE STERILE INSECT TECHNIQUE

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462

CAN PREDATOR AVOIDANCE BEHAVIOR EXPLAIN THE SPATIAL SEGREGATION BETWEEN THE MOLECULAR FORMS OF *A. GAMBIAE*?

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463

CELL BIOLOGY OF *PLASMODIUM FALCIPARUM* MIDGUT INVASION OF *ANOPHELINE* MOSQUITOES

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464

CLIMATE VARIABILITY AS PREDICTOR OF DENGUE CASES

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465

CHANGING PERCEPTIONS OF MOSQUITO NETS IN RELATION TO OTHER INSECT CONTROL METHODS IN AFRICA

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466

IS THERE AN ADVANTAGE TO MAKING YOUR HOST SICK? STUDIES ON AVIAN DEFENSIVE BEHAVIOR AND MOSQUITOE BLOOD FEEDING SUCCESS

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467

THE ROLE OF REDUCED RECOMBINATION IN THE EVOLUTION OF REPRODUCTIVE ISOLATION BETWEEN THE M AND S MOLECULAR FORMS OF *ANOPHELES GAMBIAE* S.S.

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468

PARITY LEVELS OF URBAN *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* SAMPLED BY THREE DIFFERENT METHODS: CO_2-BAITED LIGHT TRAP, NASCI ASPIRATOR AND HUMAN-LANDING COLLECTIONS

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Mosquitoes — Vector Biology — Epidemiology

469

THE MOVEMENT OF *AEDES AEGYPTI* FROM THE INSECTICIDE TREATED EXPERIMENTAL HUT IN THAILAND

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470

INVESTIGATION INTO THE FITNESS COST OF *KDR* INSECTICIDE RESISTANCE IN *ANOPHELES GAMBIAE* MALARIA VECTORS

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471

A GEOGRAPHIC INFORMATION SYSTEM APPLIED TO A MALARIA FIELD STUDY IN NIONO, MALI

Mahamoudou B. Toure, Boubacar Guindo, Adama Dao, Guimogo Dolo, Seydou Doumbia, Sekou Traoré

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472

PATTERNS AND SEASONALITY OF MALARIA TRANSMISSION IN A RURAL ENDEMIC AREA IN MIDDLE GHANA (KINTAMPO DISTRICT)

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473

INTER-EPIDEMIC AEDINE MOSQUITO ECOLOGY STUDIES AT TWO ARBOVIRUS HIGH-INTERFACE AREAS IN KENYA

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474

CLIMATIC INFLUENCES ON WEST NILE VIRUS EPIDEMICS IN SOUTH AFRICA: A RETROSPECTIVE STUDY

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475

LARVAL HABITAT DIVERSITY AND ANOPHELES PRODUCTION IN A RICELAND ECOSYSTEM IN MWEA, KENYA

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476

DENGUE KNOWLEDGE AND PRACTICES AND THEIR IMPACT ON *AEDES AEGYPTI* POPULATIONS IN KAMPHAENG PHET, THAILAND

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477

SODIUM CHANNEL ALLELE HETEROGENEITY IN *CULEX* VECTORS OF WNV IN THE UNITED STATES

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478

DISTRIBUTION OF *AEDES AEGYPTI* IN FOUR DISTRICTS OF LIMA, PERU

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479

IMPACTS OF HOST ABUNDANCE AND AVAILABILITY ON HOST PREFERENCE OF AEDES ALBOPICTUS

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480

EVALUATION OF THE HETEROGENEITY OF THE DISTRIBUTION OF *AEDES AEGYPTI* PUPAE IN AVAILABLE BREEDING SITE CONTAINERS

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481

THE IMPACT OF NON-SYSTEMIC TRANSMISSION ON ARBOVIRUS EPIDEMIOLOGY

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482

REMOTELY SENSED CORRELATES OF MOSQUITO DISTRIBUTION

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483

MONITORING LARVAL HABITATS AND MALARIA TRANSMISSION IN AREAS OF SEASONAL TRANSMISSION: SIGNIFICANCE FOR A DRY SEASON VECTOR CONTROL STRATEGY

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484

INTRA-HOUSEHOLD USE OF MOSQUITO NETS: WHO SLEEPS UNDER THE NET?

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Protozoa — Amoeba/Giardia

485

UNDERSTANDING PHAGOCYTOSIS FOLLOWING HOST-CELL KILLING BY *ENTAMOEBA HISTOLYTICA*

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(ACMCIP Abstract)

486

ZYMODEMS OF ENTAMOEBA HISTOLYTICA AND ENTAMOEBA DISPAR IN IRAN

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487

IDENTIFICATION OF ACTIN-BINDING PROTEINS IN GIARDIA LAMBLIA

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(ACMCIP Abstract)

488

EFFECTS OF NITAZOXANIDE AND OTHER THIAZOLIDES ON GIARDIA LAMBLIA GROWTH, MORPHOLOGY AND ULTRASTRUCTURE

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Protozoa — Opportunistic Protozoa

489

GENOTYPIC ANALYSIS BY PCR-RFLP OF CRYPTOSPORIDIUM SPECIES FROM DIARRHEAL STOOL SAMPLES IN CHILDREN IN THE COMMUNITY IN SOUTH INDIA

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490

POLYPEPTIDE N-ACETYLGALACTOSAMINYL TRANSFERASES OF *CRYPTOSPORIDIUM PARVUM*

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(ACMCIP Abstract)

Trematodes — Other

491

CSWD-REPEAT PROTEIN: DEVELOPMENTAL EXPRESSION AND PARTNER PROTEINS OF *CLONORCHIS SINENSIS*

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Trematodes — Schistosomiasis

492

THE USE OF CEDAR OIL COMPONENTS TO PREVENT INFECTION WITH SCHISTOSOMIASIS

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493

ENZYME-LINKED IMMUNOSORBENT ASSAY WITH WORM VOMIT AND CERCARIAL SECRETIONS OF *SCHISTOSOMA MANSONI* TO DETECT INFECTIONS IN AN ENDEMIC FOCUS OF BURKINA FASO

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494

THE USE OF MICROSATELLITES FOR SCHISTOSOMA MANSONI POPULATION STUDIES AT ENDEMIC SITES

Nilton B. Rodrigues[1], Marcilene R. Silva[1], Maíra M. Pucci[1], Alvaro J. Romanha[1], Philip T. LoVerde[2], Robert E. Sorensen[3], Dennis J. Minchella[4], Guilherme C. Oliveira[1]

[1]Centro de Pesquisas René Rachou - FIOCRUZ, Belo Horizonte - MG, Brazil, [2]State University of New York, Buffalo, NY, United States, [3]Minessota State University, Mankato, MN, United States, [4]Purdue University, West Lafayette, IN, United States

495

CHEMOKINES CONTRIBUTING TO THE ELEVATED IFN-γ LEVEL BY GENE TRANSCRIPTION PROFILE ANALYSIS IN MICE VACCINATED WITH ULTRAVIOLET-ATTENUATED CERCARIAE OF *SCHISTOSOMA JAPONICUM*

Xiang Zhu, Zhao-Song Zhang, Min-Jun Ji, Hai-Wei Wu, Yong Wang, Guan-Ling Wu

Nanjing Medical University, Nanjing, Jiangsu, China

(ACMCIP Abstract)

496

CATIONIC AMINO ACID TRANSPORTER-2 NEGATIVELY REGULATES HEPATIC PATHOLOGY DURING MURINE SCHISTOSOMIASIS

Robert W. Thompson[1], Allen W. Cheever[1], Lesley G. Ellies[2], Margaret Mentink-Kane[1], Thomas A. Wynn[1]

[1]National Institutes of Health/National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States, [2]Department of Medicine, UCSD Cancer Center, School of Medicine, University of California-San Diego, La Jolla, CA, United States

(ACMCIP Abstract)

497

SCHISTOSOMA INTERCALATUM AND SOIL TRANSMITTED HELMINTHIASIS IN ESEKA TOWN IN CAMEROON

Jean Pierre Tchinda, Louis A. Tchuem Tchuente, Abraham Fomena

University of Yaounde I, Yaounde, Cameroon

498

ASSOCIATION BETWEEN ANIMAL AND HUMAN INTENSITY OF INFECTION WITH *SCHISTOSOMA JAPONICUM* IN SAMAR PROVINCE, THE PHILIPPINES

Hélène Carabin[1], Stephen T. McGarvey[2], Ernesto Balolong[3], Patrick Belise[4], Tomas Fernandez[5], Lawrence Joseph[4], Veronica Tallo[3], Ryan Gonzales[3], Mushfiqur Tarafder[1], Portia Alday[3], Remigio Olveda[3]

[1]University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, [2]Brown University, Providence, RI, United States, [3]Research Institute for Tropical Medicine, Manila, Philippines, [4]McGill University, Montreal, QC, Canada, [5]Leyte State University, Baybay, Leyte, Philippines

499

HOST GENOME DISTRIBUTION AND PROMOTOR ACTIVITIES OF THE *SCHISTOSOMA MANSONI* LTR RETROTRANSPOSONS, *BOUDICCA* AND *SINBAD*

Claudia S. Copeland, Paul J. Brindley

Tulane University, New Orleans, LA, United States

(ACMCIP Abstract)

500

CYTOKINE PRODUCTION ASSOCIATED WITH PERIPORTAL FIBROSIS DURING CHRONIC SCHISTOSOMIASIS MANSONI IN HUMANS

Lucia Alves Oliveira Fraga[1], Elizabeth Castro Moreno[2], Giovanni Gazzinelli[3], Olindo Assis Filho[4], Alda Maria Silveira[1], Andrea Gazzinelli[5], Luiz Cosme Cotta Malaquias[1], Philip LoVerde[6], Pauline Martins Leite[1], Rodrigo Correa Oliveira[7]

[1]Universidade Vale do Rio Doce, Gov. Valadares, Brazil, [2]Fundacao Nacional de Saude- Minas Gerais, Belo Horizonte, Brazil, [3]Centro de Pesquisas Rene Rachou - FIOCRUZ, Belo Horizonte, Brazil, [4]Centro de Pesquisa Rene Rachou- FIOCRUZ, Belo Horizonte, Brazil, [5]Fac. de Enfermagem, Belo Horizonte, Brazil, [6]New York University at Buffalo, Buffalo, NY, United States, [7]Centro de Pesquisas Rene Rachou-FIOCRUZ., Belo Horizonte, Brazil

Viruses — Other

501

LISTER HOMOLOG OF VACCINIA VIRUS COMPLEMENT CONTROL PROTEIN IS TWO AMINO ACIDS SHORTER, HAS PUTATIVE GLYCOSYLATION SITES AND OTHER FUNCTIONAL AND STRUCTURAL DIFFERENCES

Odutayo O. Odunuga, Girish J. Kotwal

University of Cape Town, Cape Town, South Africa

502

EVALUATION OF A MEASLES OUTBREAK RESPONSE STRATEGY IN NIAMEY, NIGER (2003-2004)

Christine Dubray[1], Andrea Gervelmeyer[2], Ali Djibo[3], Florence Fermon[4], Isabelle Jeanne[5], Rebecca F. Grais[1], Philippe J. Guérin[1]

[1]Epicentre, Paris, France, [2]EPIET, Solna, Sweden, [3]Ministry of Health, Niamey, Niger, [4]MSF, Paris, France, [5]CERMES, Niamey, Niger

503

ANALYSIS OF SOUTH AMERICAN EASTERN EQUINE ENCEPHALITIS VIRUSES ISOLATED FROM MOSQUITOES COLLECTED IN THE AMAZON BASIN REGION OF PERU

John P. Kondig, Michael J. Turell, John S. Lee, Monica L. O'Guinn, Leonard Wasieloski

USAMRIID, Fort Detrick, MD, United States

504

ARAGUARI VIRUS, A NEW MEMBER OF THE FAMILY *ORTHOMYXOVIRIDAE*: SEROLOGIC, ULTRASTRUCTURAL, AND MOLECULAR CHARACTERIZATION

Marcio Roberto T. Nunes

Evandro Chagas, Belem-Para, Brazil

(ACMCIP Abstract)

505

ARBOVIRAL IGG ANTIBODY PREVALENCE IN THREE KENYAN DISTRICTS

Rodney L. Coldren[1], Victor O. Ofula[2], Trish J. Prosser[3], Fredrick Ogolla[4], Ferdinard Adungo[4], Steven J. Gaydos[5], Jennifer L. Gehrke[6], Evan Scullin[7], Nicholas Adungo[4]

[1]Armed Forces Research Institute of Medical Science, Bangkok, Thailand, [2]US Army Medical Research Unit - Kenya, Nairobi, Kenya, [3]Edith Cowan University, Perth, Australia, [4]Kenya Medical Research Institute, Busia, Kenya, [5]Darnell Army Community Hospital, Fort Hood, TX, United States, [6]University of Wisconsin Medical School, Madison, WI, United States, [7]Royal College of Surgeons in Ireland, Dublin, Ireland

506

SUPPRESSION OF PROINFLAMMATORY CYTOKINES MAY CONTRIBUTE TO PERSISTENCE AND BEHAVIORAL TRANSMISSION OF SEOUL VIRUS AMONG MALE NORWAY RATS

Judy D. Easterbrook, Gregory E. Glass, Sabra L. Klein

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

507

TAXONOMIC CHARACTERIZATION OF MINAÇU VIRUS AS NEW MEMBER OF FAMILY *REOVIRIDAE*, GENUS *ORBIVIRUS*

Lívia C. Martins, Raimunda S. Azevedo, Eliana V. da Silva, Vera L. Barros, José A. Diniz, Hamilton A. Monteiro, **Pedro F. Vasconcelos**

Instituto Evandro Chagas, Belém, Brazil

508

LEARNING THE HARD WAY: HEPATITIS A OUTBREAK AMONG SCHOOL FACULTY AND STUDENTS IN PAPUA, INDONESIA AFTER AN OUTDOOR EDUCATION PROGRAM

Dianne S. Mathews[1], Patrick J. Blair[2], Susan Widjaja[2], Suwardi Redjo[3], **Edith R. Lederman**[2]

[1]Hillcrest International School, Sentani, Indonesia, [2]US NAMRU-2, Jakarta, Indonesia, [3]Department of Health, Papua Province, Sentani, Indonesia

509

EARLY EVENTS IN THE PATHOGENESIS OF EASTERN EQUINE ENCEPHALITIS VIRUS IN MICE

Peter Vogel, Wayne M. Kell, David L. Fritz, Michael D. Parker, **Randal J. Schoepp**

USAMRIID, Frederick, MD, United States

510

GENETIC CHARACTERIZATION OF GEOGRAPHICALLY DISTINCT STRAINS OF CACHE VALLEY AND MAGUARI VIRUSES

Rebecca C. Langer-Curry[1], Marcio R. Nunes[2], Robert B. Tesh[1]

[1]University of Texas Medical Branch, Galveston, TX, United States, [2]Instituto Evandro Chagas, Ministerio da Saude, Belem, Brazil

511

FILLING THE GAP IN GLOBAL INFLUENZA SURVEILLANCE BY SUPPORTING OR ESTABLISHING NATIONAL INFLUENZA CENTERS

Samuel L. Yingst[1], Diaa E. Salman[2], Hala M. Esmat[2], Michael Parker[2], Kenneth C. Earhart[2]

[1]NAMRU-3, FPO, AE, United States, [2]NAMRU-3, Cairo, Egypt

512

SARS-COV REPLICATION KINETICS IN B129 MICE

Yong-Kyu Chu, Lois Allen, Barbara Taggart, Charles Gagliano, Elizabeth Frye, Colleen Jonsson

SRI, Birmingham, AL, United States

513

EVALUATION OF THE DIAGNOSTIC SENSITIVITY AND SPECIFICITY OF THE ADENOPLEX ASSAY IN THE DETECTION OF ADENOVIRUS TYPE 4

Carl A. Coward

Walter Reed Army Institute of Research, Silver Spring, MD, United States

(ACMCIP Abstract)

514

UPPER RESPIRATORY TRACT VIRAL PATHOGENS, CUSCO, PERU, 2000-2005

Gloria Chauca

US NMRCD, APO AA, Peru

515

CASE CONTROL STUDY TO EVALUATE RISK FACTORS FOR ACUTE HEPATITIS B VIRUS INFECTION IN EGYPT

Maha Talaat[1], Iman Khairy[1], Rana Hajjeh[2], Nasr El-Sayed[3], Tharwat Ismail[1], Frank J. Mahoney[2]

[1]US Naval Medical Research Unit, No.3, Cairo, Egypt, [2]US Naval Medical Research Unit, No. 3 and Centers for Disease Control and Prevention, Cairo, Egypt, [3]Ministry of Health and Population, Cairo, Egypt

516

MOSQUITO TRANSMISSION OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS AND ITS EFFECT ON MURINE PATHOGENESIS

Darci R. Smith, Patricia V. Aguilar, Lark L. Coffey, Gregory D. Gromowski, Eryu Wang, Anne-Sophie Carrara, Scott C. Weaver

University of Texas Medical Branch, Galveston, TX, United States

Bacteria — Systemic Infections

621

ATYPICAL LYMPHOCYTOSIS IN A CASE OF LEPTOSPIROSIS-POSSIBLE RELATIONSHIP TO A GAMMA DELTA T CELL IMMUNOLOGIC RESPONSE

Michele Barry[1], Adam Wisnewski[1], Sharon Inouye[1], Joseph Vinetz[2]

[1]Yale University School of Medicine, New Haven, CT, United States, [2]University of California at San Diego, San Diego, CA, United States

Clinical Tropical Medicine

705

BONE MARROW CULTURES TO DETECT ENTERIC FEVER IN CHILDREN IN PAKISTAN

Megan E. Reller[1], Furqan Hasan[2]

[1]Childrens Hospital Boston, Boston, MA, United States, [2]National Institute for Child Health, Karachi, Pakistan

ACMCIP Abstracts — Molecular, Cellular and Immunoparasitology

144, 165, 170, 175, 242, 252, 267, 286, 288, 289, 290, 292, 296, 302, 306, 307, 308, 309, 310, 311, 312, 313, 314, 318, 321, 322, 323, 324, 325, 326, 327, 343, 360, 371, 382, 387, 389, 392, 393, 394, 395, 397, 398, 399, 400, 402, 403, 404, 408, 410, 412, 416, 417, 418, 420, 425, 426, 436, 437, 445, 485, 487, 490, 495, 496, 499, 504, 513

Mid-Day Session Attendees:
We invite you to pick up a box lunch in the exhibit hall to bring to your session.

Mid-Day Session 70

History of Medicine: Kyasanur Forest Disease (Movie)

Monroe East

Tuesday, December 13 12:05 – 1:20 p.m.

"The Story of Kyasanur Forest Disesase," filmed in 1956-1957 by Telford H. Work, then director of the Virus Research Center in Poona, India. (69 minutes)

In this film, Work uses his camera as others use a notebook, systematically recording step-by-step the investigation of what was to become second after Yellow Fever a new viral hemorrhagic disease affecting both primates and humans. It gives an insight into the different field and laboratory techniques which led to the rapid elucidation of KFD, and ends with different attempts at control and prevention.

Meet the Professors 71

Meet the Professors C: Enigmatic and Teaching Cases

Supported with funding from GlaxoSmithKline

Lincoln East

Tuesday, December 13 12:15 – 1:15 p.m.

A panel of professors will each present one clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. If there is time, participants may be able to present enigmatic cases for the audience and panel to consider. An open discussion will be encouraged with audience participation.

SESSION ORGANIZER
Alan Spira
The Travel Medicine Center, Beverly Hills, CA, United States

CHAIR
Elaine Jong
University of Washington, Seattle, WA, United States

PANELISTS
David Hill
London School of Hygiene and Tropical Medicine, London, United Kingdom

Joseph M. Vinetz
University of California at San Diego, La Jolla, CA, United States

Mid-Day Session 72

Bioinformatics Resources for Tropical Diseases: NCBI Resource Update

Jefferson East

Tuesday, December 13 12:15 – 1:15 p.m.

The U.S. National Center for Biotechnology Information at the National Institutes of Health is the U.S. national resource for molecular biology information. NCBI develops software and databases to better understand fundamental molecular and genetic processes that control health and diseases. NCBI makes these resources including GenBank, PubMed, BLAST, etc. freely available to the public. This session provides an update of new computational tools including genome analysis and databases available at NCBI for tropical disease research. More detail information is available at: http://www.ncbi.nlm.nih.gov/

Chuong Huynh
National Institutes of Health/NLM/NCBI, Bethesda, MD, United States

Mid-Day Session 72A

Bioregulation: Permitting and Shipping of Pathogens and Vectors

Georgetown East

Tuesday, December 13 12:15 – 1:15 p.m.

The recent concerns for the use and shipment of biological specimens (e.g., pathogens and vectors) have resulted in confusion about the permits required for transporting these specimens and methods for obtaining these permits. A panel of experts from various regulatory organizations will discuss the need for these permits, where and when these permits will be required, and how to obtain them.

CHAIR
Edward D. Walker
Michigan State University, East Lansing, MI, United States

Michael J. Turell
USAMRIID, Fort Detrick, MD, United States

BIOREGULATION: PERMITTING AND SHIPPING OF PATHOGENS AND VECTORS

Edward D. Walker
Michigan State University, East Lansing, MI, United States and Michael Turell, USAMRIID, Fort Detrick, MD, United States

Poster Session A Dismantle

Exhibit Hall

Tuesday, December 13 1:30 – 1:45 p.m.

Scientific Session 73

Flavivirus — Dengue II

Lincoln East

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR
Kathryn Hanley
New Mexico State University, Las Cruces, NM, United States

Anna P. Durbin
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:30 p.m.

517

CELLULAR TROPISM OF DENGUE VIRUS INFECTION IN MICE AFTER SUBCUTANEOUS INJECTION

Jennifer L. Kyle, Sujan Shresta, P. Robert Beatty, Eva Harris
University of California-Berkeley, Berkeley, CA, United States

1:45 p.m.

518

IN VITRO AND *IN VIVO* PHENOTYPES OF DENGUE VIRUS SEROTYPE 3, SUBTYPE III LINEAGES ASSOCIATED WITH MILD OR SEVERE DISEASE OUTBREAKS

Kathryn A. Hanley[1], Erin E. Schirtzinger[1], Christopher T. Hanson[2], Stephen S. Whitehead[2]

[1]New Mexico State University, Las Cruces, NM, United States, [2]Laboratory of Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

2 p.m.

519

DENGUE VIRUS ENVELOPE PROTEIN GLYCOSYLATION AND INTERACTIONS WITH DENDRITIC CELLS

Kari E. Hacker, Aravinda DeSilva

University of North Carolina - Chapel Hill, Chapel Hill, NC, United States

2:15 p.m.

520

THE ROLE OF PRE-EXISTING DENGUE VIRUS (DV)-SPECIFIC ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY IN HETEROLOGOUS SECONDARY DENGUE VIRUS INFECTIONS

Kamolwish Laoprasopwattana[1], Daniel H. Libraty[2], Timothy P. Endy[3], Ananda Nisalak[4], Supamit Chunsuttiwat[5], David W. Vaughn[6], Francis A. Ennis[2], Alan L. Rothman[2], **Sharone Green**[2]

[1]Songklanagarind Hospital, Songkhla, Thailand, [2]University of Massachusetts Medical School, Worcester, MA, United States, [3]Walter Reed Army Institute of Research, Washington, DC, United States, [4]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [5]Ministry of Public Health, Bangkok, Thailand, [6]U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States

2:30 p.m.

521

DENGUE FEVER IN HUMANIZED NOD/SCID MICE

Dennis A. Bente[1], Michael W. Melkus[2], J. Victor Garcia[2], Rebeca Rico-Hesse[1]

[1]Southwest Foundation For Biomedical Research, San Antonio, TX, United States, [2]University of Texas Southwestern Medical Center, Dallas, TX, United States

2:45 p.m.

522

DEVELOPMENT OF A RAPID AND QUANTITATIVE ASSAY TO STUDY DENGUE VIRUS ANTIBODY INTERACTIONS USING A DC-SIGN- EXPRESSING HUMAN MONOCYTIC CELL LINE

Annette A. Kraus, Alden K. Casati, Tem Morrison, Mark Heise, Aravinda M. de Silva

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

3 p.m.

523

DENGUE 2 VIRUS FUSION IS INHIBITED WITH MONOCLONAL ANTIBODIES AND SYNTHETIC PEPTIDES SPECIFIC TO THE ENVELOPE GLYCOPROTEIN

Amanda E. Calvert, John T. Roehrig

Centers for Disease Control and Prevention, Fort Collins, CO, United States

Scientific Session 74

Malaria — Immunology I

Lincoln West

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

Stephen Rogerson

University of Melbourne, Parkville, Victoria, Australia

Douglas Perkins

University of Pittsburgh, Pittsburgh, PA, United States

1:30 p.m.

524

ELISPOT DETECTION OF CYTOKINE RESPONSES TO MALARIAL ANTIGENS IN PERIPHERAL AND PLACENTAL BLOOD OF MALARIA AND MALARIA/HIV CO-INFECTED KENYAN WOMEN

Julie M. Moore[1], Simon O. Owino[1], Moses Sichangi[1], David E. Lanar[2], Sheetij Dutta[2], Caroline Othoro[3], Juliana Otieno[4], John Vulule[5], Laurence Slutsker[6], Venkatachalam Udhayakumar[7], Ya Ping Shi[7]

[1]University of Georgia, Athens, GA, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]New York University, New York, NY, United States, [4]Ministry of Health, Kisumu, Kenya, [5]Kenya Medical Research Institute, Kisumu, Kenya, [6]Centers for Disease Control and Prevention/KEMRI, Kisumu, Kenya, [7]Centers for Disease Control and Prevention, Chamblee, GA, United States

(ACMCIP Abstract)

1:45 p.m.

525

DOES A LACK OF ANTIBODY TO PREGNANCY-ASSOCIATED MALARIA CONTRIBUTE TO POOR PREGNANCY OUTCOMES OF HIV INFECTED WOMEN?

Stephen Rogerson[1], Francisca Yosaatmadja[1], Richard Pranantyo[1], Dewi Ulfa[1], Adele Mount[1], Malcolm Molyneux[2], Victor Mwapasa[3], Steven Meshnick[4]

[1]University of Melbourne, Parkville, Victoria, Australia, [2]Malawi-Liverpool-Wellcome Trust Clinical Research Programme, College of Medicine, Blantyre, Malawi, [3]College of Medicine, Blantyre, Malawi, [4]University of North Carolina, Chapel Hill, NC, United States

(ACMCIP Abstract)

2 p.m.

526

PLACENTAL MALARIA IS RELATED TO HYPERTENSION AND INCREASED SERUM SFLT1 LEVELS IN YOUNG NULLIPARAS BUT NOT OTHER WOMEN

Atis Muehlenbachs[1], Theonest K. Mutabingwa[2], Sally Edmonds[3], Michal Fried[4], Patrick E. Duffy[4]

[1]University of Washington, Seattle, WA, United States, [2]LSTMH and National Institute for Medical Research, Dar es Salaam, Tanzania, Dar es Salaam, United Republic of Tanzania, [3]Muheza Designated District Hospital, Muheza, United Republic of Tanzania, [4]MOMS Project, Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

2:15 p.m.

527

SUPPRESSION OF CIRCULATING RANTES IS ASSOCIATED WITH ENHANCED PATHOGENESIS OF MALARIAL ANEMIA IN KENYAN CHILDREN

Tom Were[1], Collins Ouma[1], Richard O. Otieno[1], Alloys S. Orago[2], John Michael Ong'echa[1], **Douglas J. Perkins**[3]

[1]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, Kisumu, Kenya, [2]National AIDS Control Council, Nairobi, Kenya, [3]Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States

(ACMCIP Abstract)

2:30 p.m.

528

EFFECTS OF CONCOMITANT *SCHISTOSOMA HAEMATOBIUM* INFECTION ON THE SERUM CYTOKINE LEVELS ELICITED BY ACUTE *PLASMODIUM FALCIPARUM* MALARIA INFECTION IN MALIAN CHILDREN

Kirsten E. Lyke[1], Abdoulaye Dabo[2], Lansana Sangare[2], Charles Arama[2], Modibo Dra[2], Issa Diarra[2], Christopher V. Plowe[1], Ogobara K. Doumbo[2], Marcelo B. Sztein[1]

[1]University of Maryland, Center for Vaccine Development, Baltimore, MD, United States, [2]Malaria Research and Training Center, University of Bamako, Bamako, Mali

2:45 p.m.

529

HLA-DRB1*04 ALLELE IS ASSOCIATED WITH SEVERE MALARIA IN NORTHERN GHANA

Awo D. Osafo-Addo[1], Kwadwo A. Koram[1], Michael Wilson[1], Abraham R. Oduro[2], William O. Rogers[3]

[1]Noguchi Memorial Institute For Medical Research, Legon - Accra, Ghana, [2]Navrongo Health Research Center, Navrongo, Ghana, [3]Naval Medical Research Unit 3, Cairo, Egypt

(ACMCIP Abstract)

3 p.m.

530

CLASS II TETRAMER STAINING OF *PLASMODIUM FALCIPARUM*-SPECIFIC HUMAN CD4+ T CELLS

J. Mauricio Calvo-Calle[1], Carlos Parra-Lopez[2], Lawrence J. Stern[3], Elizabeth H. Nardin[1]

[1]New York University School of Medicine, Department of Medical Parasitology, New York, NY, United States, [2]Fundacion Instituto de Inmunologia de Colombia, Bogota, Colombia, [3]University of Massachusetts School of Medicine, Department of Pathology and Biochemistry, Worcester, MA, United States

(ACMCIP Abstract)

Symposium 75

Medical Malpractice of Exclusionary Policies Against Indoor Spraying for Malaria Control

Jefferson East

Tuesday, December 13 1:30 – 3:15 p.m.

Exclusionary policies and actions that prevent countries from using indoor spraying to control malaria and other diseases will be described. The impact of exclusionary policies on human health, both within and outside Africa, will be presented. Presenters will provide an update on legislation underway in Congress to help alleviate the problems of exclusionary policies of US agencies and to redirect policies governing how public funds are used to support malaria control. The chemical and biological basis for the continuing need for DDT and indoor spraying will be presented. This will be followed by descriptions of chemical actions of DDT and other insecticides that are currently recommended for indoor spraying. This symposium will conclude with a brief update on indoor spraying in malaria control programs in Africa and the barriers that African countries are encountering in their efforts to start or restart house spray programs.

CHAIR

Donald R. Roberts

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Amir Attaran

University of Ottawa, Institute of Population Health and Faculty of Law, Ottawa, ON, Canada

1:30 p.m.

IMPACT OF EXCLUSIONARY POLICIES AGAINST INDOOR SPRAYING ON MALARIA CONTROL

Donald R. Roberts

Uniformed Services University of the Health Sciences, Department of Preventive Medicine and Biometrics, Bethesda, MD, United States

2 p.m.

ACTIONS OF SELECTED INSECTICIDES FOR INDOOR RESIDUAL SPRAYING

John P. Grieco

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

2:25 p.m.

LEGISLATIVE AND POLICY CONSIDERATIONS IN U.S.-FUNDED MALARIA INITIATIVES

Katy French

United States Senate, Subcommittee on Federal Financial Management, Government Information and International Security, Office of the Chairman, Washington, DC, United States

2:50 p.m.

INDOOR RESIDUAL SPRAYING WITH DDT IN AFRICA: RECENT RESULTS AND CHALLENGES

Richard J. Tren

Africa Fighting Malaria, Johannesburg, South Africa

Symposium 76

From Aquatic Habitats of Anopheline Mosquitoes to the Disease Burden of Malaria: Larval Interventions from the Habitat Perspective

Jefferson West

Tuesday, December 13 1:30 – 3:15 p.m.

The renewed interest in the role of larval interventions in combating malaria in Africa has resulted in sprawling of information regarding new control strategies of malaria. This symposium will bring together experimental, observational and theoretical research in relation to larval ecology, habitat characterization and modeling. We emphasize that larval interventions should take into account heterogeneity in adult productivity among a variety of aquatic habitats. Habitat-based larval interventions can have a great potential in alleviating malaria burden in Africa, especially in low and intermediate transmission areas.

CHAIR

Robert Novak

Illinois Natural History Survey, Champaign, IL, United States

Weidong Gu

Illinois Natural History Survey, Champaign, IL, United States

1:30 p.m.

HABITAT-BASED MODELING OF LARVAL INTERVENTIONS ON THE DISEASE BURDEN OF MALARIA

Weidong Gu

Illinois Natural History Survey, Champaign, IL, United States

2 p.m.

ANOPHLES LARVAE IN URBAN SETTINGS: ECOLOGY AND HABITATS

John Beier

University of Miami, Miami, FL, United States

2:25 p.m.

ANOPHLES LARVAL HABITAT AVAILABILITY, PRODUCTIVITY AND ADULT ABUNDANCE IN WESTERN KENYA HIGHLANDS

Guiyun Yan

State University of New York, Buffalo, NY, United States

2:50 p.m.

LARVAL CONTROL IN ACTION: A REVIEW OF CURRENT PROJECTS OF INTERVENTIONS AND A FUTURE PROSPECTIVE

Robert Novak

Illinois Natural History Survey, Champaign, IL, United States

Symposium 77

Impact of Pre-existing Immunity on Development of Viral-Vectored Vaccines

Georgetown East

Tuesday, December 13 1:30 – 3:15 p.m.

Numerous viral vectors are currently being evaluated as vaccine vehicles. One of the potential obstacles facing the eventual use of many viral-vectored vaccines is the prevalence of pre-existing immunity against the vector in many target vaccine populations. This symposium will focus on the problems and potential solutions that pre-existing immunity will have on the development of viral-vectored vaccines.

CHAIR

Keith Limbach

Naval Medical Research Center, Silver Spring, MD, United States

1:30 p.m.

STRATEGIES FOR HIV VACCINE DEVELOPMENT

John Shiver

Merck and Company, Inc., West Point, PA, United States

2 p.m.

ADENOVIRUS TYPE 35 VACCINE VECTORS

Jaap Goudsmit

Crucell N.V., Leiden, The Netherlands

2:25 p.m.

PRE-EXISTING IMMUNITY TO VACCINIA AND DNA/MVA VACCINES FOR HIV

Rama Amara

Emory University, Atlanta, GA, United States

2:50 p.m.

ADENOVIRUS TYPE 5 VACCINE VECTORS

Jason Gall

GenVec, Gaithersburg, MD, United States

Scientific Session 78

Filariasis I

Georgetown West

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

Hanan Helmy

Ain Shams University, Cairo, Egypt

Daniel J. Tisch

Case Western Reserve University, Cleveland, OH, United States

1:30 p.m.

531

THE STATUS OF FOREST ONCHOCERCIASIS IN THE LOWER CROSS RIVER BASIN NIGERIA: CLINICAL AND PARASITOLOGICAL PROFILES AFTER SIX YEARS OF IVERMECTIN INTERVENTION

Kenneth N. Opara[1], Olakunle B. Fagbemi[2], Ukam E. Oyene[3], Hilary A. Adie[3], Inyang A. Atting[4], Daniel MN Okenu[5]

[1]Department of Zoology, University of Uyo, Uyo, Nigeria, [2]Department of Veterinary Microbiology and Parasitology, University of Ibadan, Ibadan, Nigeria, [3]Cross River State Onchocerciasis Control Program, Ministry of Health, Calabar, Nigeria, [4]Department of Medical Microbiology, College of Health Sciences, University of Uyo, Uyo, Nigeria, [5]Division of Infectious Diseases, Department of Medicine, Emory University School of Medicine, Atlanta, GA, United States

1:45 p.m.

532

OBSERVATIONS ON THE EFFICACY OF IVERMECTIN ON *ONCHOCERCA VOLVULUS* MICROFILARIAE AFTER 17 YEARS OF TREATMENT IN GHANA

Mike Y. Osei-Atweneboana[1], Daniel A. Boakye[2], John Gyapong[3], Roger K. Prichard[1]

[1]McGill University, St. Anne-De-Bellevue, PQ, Canada, [2]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [3]Health Research Unit, Accra, Ghana

2 p.m.

533

A SEROLOGICAL ASSESSMENT FOR THE CERTIFICATION OF ELIMINATION OF ONCHOCERCA VOLVULUS IN THE SANTA ROSA FOCUS OF GUATEMALA

Kim A. Lindblade[1], Byron Arana[2], Guillermo Zea Flores[3], Adria Prosser[4], Nancy Cruz Ortiz[2], George Punkosdy[4], Carlos Mendoza[2], Jane Richards[5], Miguel Estuardo Barrios Giron[2], Robert E. Klein[1], Frank Richards[6]

[1]Centers for Disease Control and Prevention, Guatemala City, Guatemala, [2]Medical Epidemiology, Research and Training Unit/Centers for Disease Control and Prevention, Guatemala City, Guatemala, [3]Onchocerciasis Elimination Program of the Americas, Guatemala City, Guatemala, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Tulane University, New Orleans, LA, United States, [6]Carter Center, Atlanta, GA, United States

2:15 p.m.

534

IMPACT OF MASS DRUG ADMINISTRATION ON *WUCHERERIA BANCROFTI* INFECTION RATES IN MOSQUITOES IN PAPUA NEW GUINEA

Sandra J. Laney[1], Melinda Susapu[2], Gary J. Weil[3], Steven A. Williams[1], Moses J. Bockarie[2]

[1]Smith College, Northampton, MA, United States, [2]Institute for Medical Research, Madang, Papua New Guinea, [3]Washington University School of Medicine, St. Louis, MO, United States

(ACMCIP Abstract)

2:30 p.m.

535

LONGITUDINAL ANALYSIS OF ACUTE LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA: EVALUATION OF ANNUAL MASS DRUG ADMINISTRATION ON DISEASE

Daniel J. Tisch[1], Neal D. Alexander[2], Will Kastens[1], Moses J. Bockarie[3], James W. Kazura[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]PNGIMR, Madang, Papua New Guinea

2:45 p.m.

536

COMPLIANCE AND EFFICACY OF MASS DRUG ADMINISTRATION FOR ELIMINATION OF LYMPHATIC FILARIASIS IN EGYPT

Maged El Setouhy[1], Khaled Abdel Aziz[1], Ehab S. Ahmed[1], Reda M. Ramzy[1], Gary J. Weil[2]

[1]Ain Shams University, Cairo, Egypt, [2]Washington University, School of Medicine, St. Louis, MO, United States

3 p.m.

537

ASSESSING FILARIAL INFECTION PREVALENCE AND TRANSMISSION IN A LOW-PREVALENCE AREA OF NORTHERN HAITI AFTER TWO ROUNDS OF ANNUAL MASS TREATMENT

Caroline Grady[1], Madsen Beau de Rochars[2], Abdel Direny[2], Marie Denise Milord[3], Els Mathieu[1], Allen Hightower[1], David Addiss[1], Thomas Streit[4], Patrick Lammie[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Filariasis Program, Hopital Sainte Croix, Leogane, Haiti, [3]National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port-au-Prince, Haiti, [4]University of Notre Dame, Notre Dame, IN, United States

Symposium 78A

Clinical Group I

Supported with funding from International Association for Medical Assistance to Travelers

International Ballroom East

Tuesday, December 13 1:30 – 3:15 p.m.

This symposium will feature the Marcolongo Lecture and a report on new arthropod repellents and tropical disease vectors.

CHAIR

David Freedman

University of Alabama at Birmingham, Birmingham, AL, United States

A. Clinton White

Baylor College of Medicine, Houston, TX, United States

1:30 p.m.

VINCENZO MARCOLONGO MEMORIAL LECTURE. CYSTIC ECHINOCOCCOSIS: TO TREAT OR NOT TO TREAT?

Enrico Brunetti

University of Pavia, Pavia, Italy

2:30 p.m.

NEW ARTHROPOD REPELLENTS AND TROPICAL DISEASE VECTORS — 2005 UPDATE

Vernon Ansdell

Kaiser Permanente, Honolulu, HI, United States

Scientific Session 79

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Cellular Parasitology I

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

David Williams

Illinois State University, Normal, IL, United States

Beth D. Kirkpatrick

University of Vermont College of Medicine, Burlington, VT, United States

1:30 p.m.

1105

FLAGELLAR MOTILITY IS ESSENTIAL FOR CYTOKINESIS IN *TRYPANOSOMA BRUCEI* AND IS MODULATED BY AN EVOLUTIONARILY-CONSERVED DYNEIN REGULATORY SYSTEM

Katherine Ralston, Alana Lerner, Kent Hill

University of California at Los Angeles, Los Angeles, CA

1:45 p.m.

538

ROLE OF CAVEOLAE IN LEISHMANIA CHAGASI PHAGOCYTOSIS AND INTRACELLULAR SURVIVAL IN MACROPHAGES

Nilda E. Rodriguez, Upasna Gaur, Mary E. Wilson

University of Iowa, Iowa City, IA, United States

2 p.m.

539

***SCHISTOSOMA MANSONI* PRX PROTEINS: ARE THEY A NEW DRUG TARGET?**

Ahmed A. Sayed, David L. Williams

Illinois State University, Normal, IL, United States

2:15 p.m.

540

MOUSE STRAIN DEPENDENT SUSCEPTIBILITY TO INTESTINAL AMEBIASIS

Amon Asgharpour, Shinjiro Hamano, Marcia McDuffie, **Eric R. Houpt**

University of Virginia, Charlottesville, VA, United States

2:30 p.m.

541

PROTEOLYTIC PROCESSING OF *CRYPTOSPORIDIUM PARVUM* GLYCOPROTEIN GP40/15

Jane W. Wanyiri[1], R. O'Connor[1], K. Kim[2], J. Qiu[3], A. Plaut[3], H. D. Ward[1]

[1]Tufts-New England Medical Center, Boston, MA, United States, [2]Albert Einstein College of Medicine, New York, NY, United States, [3]GRASP Digestive Diseases Center, Tufts-New England Medical Center, Boston, MA, United States

2:45 p.m.

542

INFECTIVE FORMS OF *LEISHMANIA (L.) AMAZONENSIS* AVOID MACROPHAGE SURVEILLANCE BY EXPOSING PHOSPHATIDYLSERINE

João L. Wanderley[1], Lucia H. Pinto-da-Silva[1], Elvira M. Saraiva[2], Adriana Bonomo[1], Maria E. Moreira[1], Lynn Soong[3], Marcello A. Barcinski[4]

[1]National Cancer Institute, Rio de Janeiro, Brazil, [2]Institute of Microbiology - Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, [3]Institute for Human Infections and Immunity, University of Texas Medical Branch, Galveston, TX, United States, [4]University of São Paulo, Parasitology Department, São Paulo, Brazil

3 p.m.

543

SOLUBLE AND MEMBRANE ASSOCIATED *P. FALCIPARUM* FACTORS INDUCE ICAM-1 EXPRESSION ON HUMAN BRAIN ENDOTHELIUM THROUGH NFκB

Abhai K. Tripathi[1], David J. Sullivan[1], Monique F. Stins[2]

[1]Department of Molecular Microbiology and Immunology, School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [2]Department of Peditric Infectious Disease, School of Medicine, Johns Hopkins University, Baltimore, MD, United States

Poster Session B Setup

Exhibit Hall

Tuesday, December 13 3 – 3:45 p.m.

Exhibit Hall Open

Exhibit Hall

Tuesday, December 13 3 – 4 p.m.

Coffee Break

Exhibit Hall

Tuesday, December 13 3:15 – 3:45 p.m.

Poster Session B Viewing

Exhibit Hall

Tuesday, December 13 3:45 – 7 p.m.

Symposium 80

Parasite and Host Gene Expression in Malaria

Monroe East

Tuesday, December 13 3:45 – 5:30 p.m.

With the advent of genomics and the widespread availability of microarrays to assess gene expression, there are now opportunities to examine parasite and host gene expression that have not existed previously. In this symposium, four investigators will present results which examine: 1] parasite gene expression during treatment with antimalarials, 2] host gene expression in a non-human primate model of human *P. vivax* malaria (P. cynomolgi in the rhesus monkey), 3] host gene expression in humans with naturally-acquired *P. falciparum* infection, and 4] host gene expression in non-immune human volunteers challenged with malaria parasites.

CHAIR

Donald J. Krogstad

Tulane University, New Orleans, LA, United States

Wilbur A. Milhous

Walter Reed Army Institute of Research, Silver Spring, United States

3:45 p.m.

PARASITE GENE EXPRESSION DURING TREATMENT WITH ANTIMALARIALS *IN VITRO*

Karen Kopydlowski

Walter Reed Army Institute of Research, Silver Spring, MD, United States

4:15 p.m.

NON-HUMAN PRIMATE MODEL OF HUMAN *P. VIVAX* MALARIA: *P. CYNOMOLGI* IN THE RHESUS MONKEY

Frank B. Cogswell

Tulane National Primate Research Center, Covington, LA, United States

4:40 p.m.

HUMAN SUBJECTS IN MALI WITH *P. FALCIPARUM* MALARIA

Ousmane A. Koita

Faculties of Science and Medicine, University of Bamako, Bamako, Mali

5:05 p.m.

HOST RESPONSES TO MALARIA IN CHALLENGED NON-IMMUNE HUMAN VOLUNTEERS

Christian F. Ockenhouse

Walter Reed Army Institute of Research, Silver Spring, MD, United States

Scientific Session 81

Ectoparasite-Borne Diseases I

Monroe West

Tuesday, December 13 3:45 – 5:30 p.m.

CHAIR

Ivo M. Foppa

University of South Carolina, Columbia, SC, United States

Wei-Mei Ching

Naval Medical Research Center, Silver Spring, MD, United States

3:45 p.m.

UPDATE: WHAT'S NEW WITH SCRUB TYPHUS: RECENT ADVANCES IN VACCINES, VECTORS, GENETICS, DIAGNOSTICS AND EPIDEMIOLOGY

Daryl J. Kelly

The Ohio State University, Columbus, OH, United States

4:15 p.m.

544

IDENTIFICATION OF *RICKETTSIA SPP.* IN TICKS COLLECTED IN BAVARIA, SOUTH-GERMANY

Roman Wolfel[1], Martin Pfeffer[1], Sandra Essbauer[1], Judith Kiessling[2], Sonja Wilhelm[3], Gerhard Dobler[1]

[1]Bundeswehr Institute of Microbiology, Munich, Germany, [2]Institute of Medical Microbiology, Epidemic and Infectious Diseases, LMU Munich, Germany, [3]Institute of Animal Hygiene and Veterinary Public Health, University of Leipzig, Germany

4:30 p.m.

545

NOVEL *RICKETTSIA*-LIKE AMPLICONS RECOVERED FROM *DERMACENTOR*, *AMBLYOMMA*, AND *IXODES* TICKS IN MARYLAND

Katherine Swanson[1], Nicole Ammerman[2], Aimee West[1], Douglas Norris[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]University of Maryland School of Medicine, Baltimore, MD, United States

4:45 p.m.

546

QUESTING DOG TICKS ON MARTHA'S VINEYARD ARE INFECTED WITH MULTIPLE CLONES OF THE AGENT OF TULAREMIA

Heidi Goethert, Sam Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

5 p.m.

547

***IXODES SCAPULARIS* CAN SUPPRESS HOST CYSTEINE PROTEASE ACTIVITY IN THE SITES OF BLOOD FEEDING**

Michail Kotsyfakis, John F. Andersen, Ivo M. Francischetti, Jose M. Ribeiro

National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

(ACMCIP Abstract)

5:15 p.m.

548

DIVERSITY OF *BORRELIA BURGDORFERI OSPC* IN PERSISTENTLY INFECTED *PEROMYSCUS LEUCOPUS*

Katherine Swanson, Douglas Norris

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 82

Flavivirus — Vaccines

Lincoln East

Tuesday, December 13 3:45 – 5:30 p.m.

CHAIR

Scott B. Halstead

Uniformed Services University of the Health Sciences, North Bethesda, MD, United States

David W. Vaughn

U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States

3:45 p.m.

549

A DENGUE-VEE REPLICON PARTICLE VACCINE INDUCES THE BEST IMMUNE RESPONSE IN A PRIME-BOOST REGIMEN

Kevin R. Porter[1], Daewan Kim[1], Lan Chen[1], Hemavathy Subramanian[1], Martha Sedegah[1], Jonathan O. Rayner[2], Kimberly D. Alterson[2], Curtis G. Hayes[1], Kanakatte Raviprakash[1]

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]AlphaVax Inc., Research Triangle Park, NC, United States

4 p.m.

550

THE LIVE ATTENUATED DENGUE SEROTYPE 1 VACCINE RDEN1DELTA30 IS SAFE AND IMMUNOGENIC IN HEALTHY VOLUNTEERS

Julie H. McArthur[1], Jennifer A. Marron[1], Bhavin Thumar[1], Kimberli Wanionek[1], Janece Lovchik[1], Ruth A. Karron[1], Brian R. Murphy[2], Joseph E. Blaney[3], Stephen S. Whitehead[2], **Anna P. Durbin**[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]National Institute Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

4:15 p.m.

551

PROGRESS ON LIVE-ATTENUATED DENGUE VIRUS VACCINES CONTAINING A TETRAVALENT FORMULATION OF RECOMBINANT VIRUSES

Joseph E. Blaney[1], Christopher T. Hanson[1], Cai-Yen Firestone[1], Anna P. Durbin[2], Brian R. Murphy[1], Stephen S. Whitehead[1]

[1]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:30 p.m.

552

SAFETY, VIREMIA AND IMMUNOGENICITY OF A TETRAVALENT LIVE ATTENUATED CHIMERIVAX DENGUE VACCINE IN HEALTHY US ADULTS

Niranjan Kanesa-thasan[1], Dennis Morrison[2], Remi Forrat[3], Alison Deary[4], Karen McCarthy[4], Rick Nichols[1], Sutee Yoksan[5], Farshad Guirakhoo[1], Jean Lang[3], Philip Bedford[4], Thomas Monath[1]

[1]Acambis, Inc., Cambridge, MA, United States, [2]Bio-kinetic, Springfield, MO, United States, [3]sanofi pasteur, Lyon, France, [4]Acambis, Inc., Cambridge, United Kingdom, [5]Mahidol University, Salaya, Thailand

4:45 p.m.

553

RANDOMISED, DOUBLE-BLIND, PHASE 2 STUDY OF THE SAFETY, IMMUNOGENICITY AND DURATION OF IMMUNITY OF CHIMERIVAX™-JE LIVE, ATTENUATED VACCINE AGAINST JAPANESE ENCEPHALITIS (JE) IN HEALTHY ADULTS: RESPONSE TO BOOSTER VACCINATION AND ONE YEAR FOLLOW-UP

Niranjan Kanesa-thasan[1], Peter Nasveld[2], Scott Kitchener[3], Matt Dobson[4], Alison Deary[4], John Stone[4], Karen McCarthy[4], Philip Bedford[4], Sutee Yoksan[5], Rick Nichols[1], Thomas Monath[1]

[1]Acambis, Inc., Cambridge, MA, United States, [2]Army Malaria Institute, Brisbane, Australia, [3]University of Queensland, Brisbane, Australia, [4]Acambis, Inc., Cambridge, United Kingdom, [5]Mahidol University, Bangkok, Thailand

5 p.m.

554

VIRUS REPLICATION OF A WEST NILE VACCINE, CHIMERIVAX™-WN02 IN NON-HUMAN PRIMATES

J. Jian Liu, Thomas T. Monath, **John Hamberger**, Weiping Chen, Gwen Myers, Svjetlana Pilja, Farshad Guirakhoo

Acambis, Inc., Cambridge, MA, United States

5:15 p.m.

555

A RECOMBINANT SUBUNIT VACCINE FOR WEST NILE VIRUS YIELDS EFFICACIOUS AND DURABLE PROTECTION IN THE GOLDEN HAMSTER MODEL OF LETHAL WEST NILE ENCEPHALITIS

Michael M. Lieberman[1], Douglas Watts[2], Robert Tesh[2], David Clements[1], Steven Ogata[1], Teri Wong[1], Gordon Wang[1], James Senda[1], Gloria Corpuz[1], Amelia Travassos da Rosa[2], Marina Siirin[2], Beth-Ann Coller[1], Carolyn Weeks-Levy[1]

[1]Hawaii Biotech, Inc., Aiea, HI, United States, [2]University of Texas Medical Branch, Galveston, TX, United States

Scientific Session 83

Malaria — Immunology II

Lincoln West

Tuesday, December 13 3:45 – 5:30 p.m.

CHAIR

James Burns

Drexel University College of Medicine, Philadelphi, PA, United States

Evelina Angov

Walter Reed Army Institute of Research, Silver Spring, MD, United States

3:45 p.m.

556

PREVALENCE OF MEROZOITE SURFACE PROTEIN-1 19KDA HAPLOTYPES AT A MALARIA VACCINE TESTING SITE IN BANDIAGARA, MALI

Shannon L. Takala[1], Drissa Coulibaly[2], Mahamadou A. Thera[2], Alassane Dicko[2], David L. Smith[3], Ando B. Guindo[2], Abdoulaye K. Kone[2], Amed Ouattara[1], Abdoulaye Djimde[2], Paul Sehdev[1], Kirsten Lyke[1], Dapa Diallo[2], Christopher V. Plowe[1], Ogobara K. Doumbo[2]

[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Bamako, Bamako, Mali, [3]Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

4 p.m.

557

ANALYSIS OF ANTIBODY SPECIFICITIES DETECTED BY AN MSP1-42 FRAGMENT SPECIFIC ELISA FOLLOWING VACCINATION WITH FMP1/AS02A IN THREE DIVERSE POPULATIONS

Evelina Angov[1], Afiya Brent-Kirk[1], Scott A. Bowden[1], Lorraine A. Soisson[2], Jose A. Stoute[3], Christian F. Ockenhouse[1], Joe Cohen[4], Carter L. Diggs[2], Donald G. Heppner[1], Jeffrey A. Lyon[1]

[1]Department Immunology, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]United States Agency for International Development, Washington, DC, United States, [3]Department Cellular Injury, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]GlaxoSmithKline Biologicals, Rixensart, Belgium

4:15 p.m.

558

EBV-SPECIFIC IFN-GAMMA ELISPOT RESPONSES ARE SUPPRESSED WHILE THOSE TO MSP-1 ARE BOOSTED AFTER AN EPISODE OF ACUTE CLINICAL MALARIA

Ann M. Moormann[1], Pauline Sebby Ogolla[2], Kiprotich Chelimo[2], Peter Odada Sumba[2], Daniel J. Tisch[3], Ryan W. Novince[1], Rosemary Rochford[4], James W. Kazura[1]

[1]Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, [2]Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, OH, United States, [4]Department of Microbiology and Immunology, SUNY UpState Medical University, Syracuse, NY, United States

4:30 p.m.

559

DIFFERENTIAL ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE AND INVASION LIGAND PROTEINS IN INDIVIDUALS LIVING IN MALARIA ENDEMIC AREAS IN BRAZIL AND CAMEROON

Louise Ford[1], Cheryl A. Lobo[1], Meagan B. Gallagher[1], Marilis Rodriguez[1], Mariano G. Zalis[2], Carlos E. Cavasini[3], Ricardo L. Machado[3], Ross L. Coppel[4], Peter A. Enyong[5], Daniel W. Moukatte[6], Sara Lustigman[1]

[1]New York Blood Center, New York, NY, United States, [2]Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, [3]Faculty of Medicine of São José do Rio Preto, São Paulo, Brazil, [4]Monash University, Clayton, Victoria, Australia, [5]Tropical Medicine Research Station, Kumba, Cameroon, [6]District Referal Hospital, Kumba, Cameroon

(ACMCIP Abstract)

4:45 p.m.

560

C3D BINDING TO THE CIRCUMSPOROZOITE PROTEIN CARBOXY-TERMINUS DEVIATES IMMUNITY AGAINST MALARIA

Elke S. Bergmann-Leitner[1], Elizabeth H. Duncan[1], Farhat Khan[1], Jackie L. Williams[1], Wolfgang W. Leitner[2], Evelina Angov[1], George C. Tsokos[1], Jeffrey A. Lyon[1]

[1]Walter Reed Army Institute, Silver Spring, MD, United States, [2]National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

5 p.m.

561

ASSESSMENT OF PROTECTIVE IMMUNE MECHANISMS AGAINST MALARIA INDUCED BY POLYMERIC LINEAR PEPTIDE CHIMERAS

Luciana M. Flannery, Ivette Caro-Aguilar, Mary R. Galinski, Alberto Moreno

Emory Vaccine Center, Atlanta, GA, United States

5:15 p.m.

562

ALTERATION IN HOST CELL TROPISM LIMITS THE EFFICACY OF IMMUNIZATION WITH A SURFACE PROTEIN OF MALARIA MEROZOITES

Qifang Shi, Amy Cernetich, Thomas M. Daly, Gina Galvan, Akhil B. Vaidya, Lawrence W. Bergman, James M. Burns, Jr.

Drexel University, College of Medicine, Philadelphia, PA, United States

Symposium 84

Biomphalaria and Schistosoma: Research Updates on their Interaction

Jefferson East

Tuesday, December 13 3:45 – 5:30 p.m.

Research in the *B.glabrata/S.mansoni* relationship was prompted largely by Dr. C.S. Richards, whose recent death left a void in this field. The speakers will present current snail-parasite research, based on Dr. Richards' pioneering efforts.

CHAIR

Fred A. Lewis

Biomedical Research Institute, Rockville, MD, United States

Philip T. LoVerde

State University of New York at Buffalo, Buffalo, NY, United States

3:45 p.m.

STUDIES TOWARDS A MOLECULAR UNDERSTANDING OF THE SCHISTOSOME/SNAIL ENCOUNTER

Matty Knight

Biomedical Research Institute, Rockville, MD, United States

4:15 p.m.

INNATE IMMUNITY IN BIOMPHALARIA TO LARVAL SCHISTOSOMES: PROGRESS AND CHALLENGES

Timothy P. Yoshino

University of Wisconsin, Madison, WI, United States

4:40 p.m.

COEVOLUTIONARY DYNAMICS BETWEEN SCHISTOSOMA MANSONI AND BIOMPHALARIA GLABRATA: A TALE OF RESISTANCE COSTS, INFECTION COSTS AND ENVIRONMENTAL MODULATION

Gregory Sandland

Purdue University, West Lafayette, IN, United States

5:05 p.m.

SCHISTOSOMES AND SNAILS-THE HISTORICAL PERSPECTIVE OF MOLECULAR PHYLOGENETICS

E. S. Loker

University of New Mexico, Albuquerque, NM, United States

Symposium 85

Evolutionarily Conserved Signal Transduction Pathways in Mosquitoes: Physiological Hyperlinks to Vectorial Capacity

Jefferson West

Tuesday, December 13 3:45 – 5:30 p.m.

Vectorial capacity is a mathematical expression for the risk of pathogen or parasite transmission by an insect vector. While the mathematical formula is deceptively simple, the physiological processes that underlie different parts of the formula are complex and require activation of signaling pathways that integrate both internal and environmental information. In this symposium, we present new findings on signal transduction pathways that affect physiological processes in mosquitoes that are central to vectorial capacity: innate immunity, nutrient metabolism and reproduction, olfaction and diuresis. The relevant signaling pathways include extreme examples of conservation with orthologous pathways in mammalian cells and have significant novel potential for genetic manipulation to alter vectorial capacity.

CHAIR

Shirley Luckhart

University of California at Davis, Davis, CA, United States

Mark R. Brown

University of Georgia, Department of Entomology, Athens, GA, United States

3:45 p.m.

SIGNAL TRANSDUCTION AND INNATE IMMUNITY IN ANOPHELES

Shirley Luckhart

University of California at Davis, School of Medicine, Dept Medical Microbiology and Immunology, Davis, CA, United States

4:15 p.m.

SIGNAL TRANSDUCTION AND REPRODUCTION IN MOSQUITOES

Mark R. Brown

University of Georgia, Department of Entomology, Athens, GA, United States

4:40 p.m.

SIGNAL TRANSDUCTION AND OLFACTION

Lawrence J. Zwiebel

Vanderbilt University, Department of Biological Sciences, Nashville, TN, United States

5:05 p.m.

SIGNAL TRANSDUCTION AND DIURESIS

Geoffrey M. Coast

University of London, School of Biological and Chemical Sciences, London, United Kingdom

Scientific Session 86

Filariasis II

Georgetown West

Tuesday, December 13 3:45 – 5:15 p.m.

CHAIR

Tarig B. Higazi

University of Alabama at Birmingham, Birmingham, AL, United States

David Addiss

Centers for Disease Control and Prevention, Buford, GA, United States

3:45 p.m.

563

BANCROFTIAN FILARIASIS: EFFECT OF ANNUAL TREATMENT WITH DIETHYLCARBAMAZINE AND ALBENDAZOLE ON CIRCULATING FILARIAL ANTIGEN LEVELS AND ANTI-FILARIAL ANTIBODIES

Hanan Helmy[1], Gary J. Weil[2], Abou Sree T. Ellethy[1], Ehab S. Ahmed[1], Maged El Setouhy[1], Reda M. Ramzy[1]

[1]Ain Shams University, Cairo, Egypt, [2]Washington University, St. Louis, MO, United States

4 p.m.

564

COSTLY ADVERSE REACTIONS TO LYMPHATIC FILARIASIS TREATMENT IN LEOGANE, HAITI, 2004

Natasha Hochberg[1], Marie Carmel Michel[2], Patrick J. Lammie[1], Els Mathieu[1], Abdel D. Direny[2], Madsen B. DeRochars[2], David G. Addiss[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Hopital Ste. Croix, Leogane, Haiti

4:15 p.m.

565

ANALYSIS OF THE POPULATION GENETICS OF CONCURRENT SELECTION WITH ALBENDAZOLE AND IVERMECTIN ON THE POSSIBLE DEVELOPMENT OF ALBENDAZOLE RESISTANCE

Anne E. Schwab[1], Andreas J. Schwab[2], Thomas S. Churcher[3], Maria-Gloria Basanez[3], Roger K. Prichard[1]

[1]McGill University, Ste-Anne-de-Bellevue, PQ, Canada, [2]McGill University, Montreal, PQ, Canada, [3]Imperial College, London, United Kingdom

4:30 p.m.

566

IDENTIFICATION OF ELEMENTS ESSENTIAL FOR TRANSCRIPTION IN *BRUGIA MALAYI* PROMOTERS

Tarig B. Higazi, Ana Oliveira, Charles Katholi, Limin Shu, Joseph Barchue, Mark Lisenby, Thomas R. Unnasch

University of Alabama at Birmingham, Birmingham, AL, United States

(ACMCIP Abstract)

4:45 p.m.

567

IDENTIFICATION OF *BRUGIA* ADULT WORM PROTEINS BY PEPTIDE MASS FINGERPRINTING

Tiffany S. Weinkopff[1], James Atwood[2], George Punkosdy[3], Brent Weatherly[1], Ronald Orlando[2], Patrick Lammie[3]

[1]Department of Cellular Biology, University of Georgia, Athens, GA, United States, [2]Complex Carbohydrate Research Center, University of Georgia, Athens, GA, United States, [3]Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

5 p.m.

568

STAGE SPECIFIC ANTIGENEMIA STATUS IN BRUGIAN FILARIASIS: PRE AND POST TREATMENT KINETICS

Nancy Malla[1], P.K. Tripathi[1], R.K. Shenoy[2], R.C. Mahajan[1]

[1]P.G.I.M.E.R, Chandigarh, India, [2]Filariasis Chemotherapy Unit,T.D.Medical College, Alleppy ,Kerala, India

(ACMCIP Abstract)

Symposium 87

Clinical Group II

International Ballroom East

Tuesday, December 13 3:45 – 5:30 p.m.

This symposium will feature updates on malaria chemoprophylaxis and adverse effects of yellow fever vaccine. These scientific talks will be followed by the Clinical Group annual business meeting.

CHAIR

David Freedman

University of Alabama at Birmingham, Birmingham, AL, United States

3:45 p.m.

CLINICAL UPDATE ON YELLOW FEVER VACCINE ADVERSE EFFECTS

Rachel Barwick Eidex

Centers for Disease Control/National Center for Infectious Diseases/DGMQ, Atlanta, GA, United States

4:10 p.m.

CLINICAL UPDATE ON MALARIA CHEMOPROPHYLAXIS

Monica Parise

Centers for Disease Control/National Center for Infectious Diseases/DPD, Atlanta, GA, United States

4:50 p.m.

CLINICAL GROUP ANNUAL BUSINESS MEETING

David Freedman

University of Alabama at Birmingham, Birmingham, AL, United States

Scientific Session 88

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Cellular Parasitology II

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Tuesday, December 13 3:45 – 5:30 p.m.

CHAIR

Kim C. Williamson

Loyola University Chicago, Chicago, IL, United States

David J. Sullivan, Jr.

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3:45 p.m.

1106

DEVELOPING A ONE STEP PCR-BASED METHOD FOR GENE DISRUPTION AND *IN VIVO* EPITOPE TAGGING IN *CRITHIDIA FASCICULATA*

Yu Sun

University of California at Los Angeles, Los Angeles, CA, United States

4 p.m.

569

REGULATION OF ERYTHROCYTE INVASION BY HOST SIGNALING PATHWAYS AND MALARIA PARASITE LIGANDS

Sean C. Murphy[1], Natalia L. Hiller[1], Paul Chung[1], S.N. Prasana Murthy[1], H. Alex Brown[2], Heidi E. Hamm[2], Jon W. Lomasney[1], Kasturi Haldar[1]

[1]Northwestern University, Chicago, IL, United States, [2]Vanderbilt University, Nashville, TN, United States

4:15 p.m.

570

ERYTHROPOIETIN PROTECTS MICE FROM DEATH DURING CEREBRAL MALARIA

Stephane Picot[1], Anthony Texier[2], Josette Ferrandiz[2], Christine Latour[2], François Peyron[2], Kaiser Karine[1]

[1]Hospices Civils de Lyon, University Claude Bernard, Lyon, France, [2]University Claude Bernard Lyon, Lyon, France

4:30 p.m.

571

NEUTRAL LIPID MICROSPHERES IN *P. FALCIPARUM* DIGESTIVE VACUOLES MEDIATE HEME CRYSTALLIZATION

John Pisciotta[1], Isabelle Coppens[1], Abhai Tripathi[1], Peter Scholl[1], Joel Shuman[2], Vladimir Shulaev[2], **David J. Sullivan**[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Virginia Bioinformatics Institute, Blacksburg, VA, United States

4:45 p.m.

572

CYCLOOXYGENASE-2 AND 15-LOX EXPRESSION DURING PLACENTAL MALARIA

Demba Sarr[1], Delphine Aldebert[1], Laurence Marrama[1], Adama Gaye[2], Makhtar Niang[1], Jean Yves Lehesran[3], **Ronan Jambou**[1]

[1]Institut Pasteur de Dakar, Dakar, Senegal, [2]Centre de Santé Roi Baudoin, Dakar, Senegal, [3]Unité mère-enfant, IRD, Dakar, Senegal

5 p.m.

ACMCIP BUSINESS MEETING

John H. Adams

Notre Dame University, Notre Dame, IN, United States

Plenary Session III

Commemorative Fund Lecture

International Ballroom Center

Tuesday, December 13 6 – 6:45 p.m.

The ASTMH Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics.

CHAIR
Thomas P. Monath
Acambis Inc., Cambridge, MA

DISEASE IN CONTROL OF AFRICA: THE FOOL AT FORTY?

Oyewale Tomori
Redeemer's University, Lagos State, Nigeria

Wednesday, December 14

Registration

Concourse Foyer

Wednesday, December 14 7 a.m. – 5 p.m.

Poster Session B Viewing

Exhibit Hall

Wednesday, December 14 7 a.m. – 5:30 p.m.

Program Committee Meeting

Caucus

Wednesday, December 14 7 – 8 a.m.

ASTMH Past Presidents Breakfast

State

Wednesday, December 14 7 – 8 a.m.

Cyberspace/Web Site Committee

Edison

Wednesday, December 14 7 – 8 a.m.

Symposium 88A

Rolling Back Malaria in Eritrea — Success from a Comprehensive Program

Lincoln West

Wednesday, December 14 7 – 8 a.m.

Eritrea met or exceeded each of the Abuja targets by the end of 2004 using a combination of proven interventions, including improved case management, insecticide-treated nets, targeted indoor residual spraying, and larval control. Several advisors to Eritrea's malaria control program will present brief summaries of the country's strategies and lessons to be learned from its experiences. Presenters will be available to answer questions following this brief breakfast symposium.

CHAIR
Eugene Brantly
RTI International, Washington, DC, United States

8 a.m.

MEASURING THE EFFECTIVENESS OF MALARIA INTERVENTIONS IN ERITREA

Patricia Graves
EpiVec Consulting, Inc., Atlanta, GA, United States

8:20 a.m.

USING OR 'JUST OWNING' A NET: ROLLING OUT ITNS IN ERITREA

Kate Macintyre
Tulane University, New Orleans, LA, United States

8:40 a.m.

BUILDING ERITREA'S EARLY WARNING SYSTEM

Madeleine Thompson

Columbia University, Palisades, NY, United States

9 a.m.

A COMPARATIVE ANALYSIS OF FACTORS FOR SUCCESS IN MALARIA CONTROL

Lawrence Barat

Academy for Educational Development, Washington, DC, United States

Symposium 89

Insect Growth Regulators and Mosquitoes

Hemisphere

Wednesday, December 14 8 – 9:45 a.m.

This symposium will provide a synopsis of the major classes and current status of insect growth regulators used to prevent the transmission of mosquito-borne diseases. Insect growth regulators represent an excellent opportunity to stop disease transmission while having minimal deleterious effect on the environment and human health. Juvenile hormone analogs, ecdysone agonists, plus a variety of newer compounds, will be surveyed as agents for mosquito control. The advantages and disadvantages of each class of compounds will be assessed.

CHAIR

Nancy E. Beckage

University of California-Riverside, Riverside, CA, United States

8 a.m.

HOW *DROSOPHILA* RESPONDS TO METHOPRENE, AND WHAT THIS MAY TELL US ABOUT THE MOSQUITO RESPONSE

Thomas Wilson

Ohio State University, Columbus, OH, United States

8:30 a.m.

MODE OF ACTION OF METHOPRENE IN *AEDES AEGYPTI*

S. R. Palli

University of Kentucky, Lexington, KY, United States

8:55 a.m.

DISRUPTIVE EFFECTS OF THREE ECDYSONE AGONISTS ON DEVELOPMENT OF *AEDES AEGYPTI*, *CULEX QUINQUEFASCIATUS* AND *ANOPHELES GAMBIAE* LARVAE

Nancy Beckage

University of California-Riverside, Riverside, CA, United States

9:20 a.m.

NUTRITIONAL CONTROL OF EGG PRODUCTION IN ANAUTOGENOUS MOSQUITOES PROVIDES A LINK WITH PATHOGEN TRANSMISSION

Alexander Raikhel

University of California - Riverside, Riverside, CA, United States

Scientific Session 90

Bacteriology I — Diarrhea

Military

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

Regina LaRocque

Massachusetts General Hospital, Boston, MA, United States

Jason B. Harris

Massachusetts General Hospital, Boston, MA, United States

8 a.m.

573

DIARRHEAL EPIDEMICS IN DHAKA, BANGLADESH DURING THREE CONSECUTIVE FLOODS — 1988, 1998, AND 2004

Brian S. Schwartz[1], Jason B. Harris[1], Ashraful I. Khan[2], Regina C. Larocque[1], David A. Sack[2], Stephen P. Luby[2], Firdausi Qadri[2], Stephen B. Calderwood[1], Abu S. Faruque[2], Edward T. Ryan[1]

[1]Massachusetts General Hospital, Boston, MA, United States, [2]ICDDR,B: Centre for Health and Population Research, Dhaka, Bangladesh

8:15 a.m.

574

HUMAN-PASSAGED HYPERINFECTIVITY OF *VIBRIO CHOLERAE* CAN BE MODELED BY GROWTH IN THE INFANT MOUSE

Ashfaqul Alam[1], **Regina C. LaRocque**[2], Jason B. Harris[2], Cecily Vanderspurt[2], Edward T. Ryan[2], Firdausi Qadri[2], Stephen B. Calderwood[2]

[1]International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [2]Massachusetts General Hospital, Boston, MA, United States

8:30 a.m.

575

PROTECTIVE IMMUNITY INDUCED BY TRANSCUTANEOUS IMMUNIZATION WITH *VIBRIO CHOLERAE* TOXIN CO-REGULATED PILUS A (TCPA) ANTIGEN

Julianne Rollenhagen[1], Anuj Kalsy[1], Manohar John[1], Jason Harris[1], Regina LaRocque[1], Firdausi Qadri[2], Stephen Calderwood[1], Francisca Cerda[3], Ronald Taylor[3], Edward T. Ryan[1]

[1]Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, [2]International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [3]Dartmouth Medical School, Hanover, NH, United States

8:45 a.m.

576

INTERNATIONAL INVESTIGATION OF AN OUTBREAK OF *SALMONELLA* ENTERITIDIS INFECTIONS AMONG US TRAVELERS — JAMAICA, 2005

Romulo E. Colindres[1], Deanna Ashley[2], Lisa Indar[3], Nikki Maxwell[1], Ciara O'Reilly[1], Ewelina Lyszkowicz[1], Olga Henao[1], Susan Montgomery[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Jamaican Ministry of Health, Kingston, Jamaica, [3]Caribbean Epidemiology Centre, Port of Spain, Trinidad and Tobago

9 a.m.

577

APPLICATION OF *IN VIVO* INDUCED ANTIGEN TECHNOLOGY (IVIAT) TO *SALMONELLA ENTERICA* SEROTYPE TYPHI: IDENTIFICATION OF PAGC AS A MARKER OF *S. TYPHI* INFECTION

Jason B. Harris[1], Andrea Baresch-Bernal[1], Md. Ashfaqul Alam[2], Regina C. LaRocque[1], Firdausi Qadri[2], Stephen B. Calderwood[1], Robert F. Breiman[3], W. Abdullah Brooks[2], Martin Handfield[4], Sean Rollins[1], Edward T. Ryan[1]

[1]Massachusetts General Hospital, Boston, MA, United States, [2]International Centre for Diarrheaol Disease Research, Dhaka, Bangladesh, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]College of Dentistry, University of Florida, Gainesville, FL, United States

9:15 a.m.

578

INVESTIGATING THE MOLECULAR MECHANISMS OF NALIDIXIC ACID RESISTANCE AND REDUCED SUSCEPTIBILITY TO FLUOROQUINOLONES IN *SALMONELLA TYPHI*

Chau T. Tran[1], Christiane Dolecek[1], R. Leon R. Ochiai[2], James Ian Campbell[1], Yin Yang[3], Hoang Minh Nguyen[1], Zulfiqar A. Bhutta[4], Sujit K. Bhattacharya[5], Thiem Dinh Vu[6], Magdarina Agtini[7], John Wain[8], Christopher Martin Parry[9], Diep Song To[1], Chau Vinh Nguyen[1], Ho Anh Vo[10], Bay Be Phan[10], Phuong Thi Le[10], Lanh Ngoc Mai[10], La Phi Tran[11], Lorenz von Seidlein[4], Camilo J. Acosta[4], Hien Tinh Tran[1], John D. Clemens[4], Simmaly Phongmany[12], Jeremy Farrar[1]

[1]The Hospital for Tropical Diseases, Hochiminh, Viet Nam, [2]International Vaccine Institute., Seoul, Republic of Korea, [3]Guangxi Center for Disease Prevention and Control, Guangxi, China, [4]Department of Pediatrics, Aga Khan University, Karachi, Pakistan, [5]National Institute of Cholera and Enteric Diseases, Beliaghata, Kolhata, India, [6]National Institutes of HealthE, Hanoi, Viet Nam, [7]National Institute of Health, Research and Development, Jakarta, Indonesia, [8]Sanger Institute, Cambridge, United Kingdom, [9]Liverpool University, Liverpool, United Kingdom, [10]Dong Thap Provincial Hospital, Cao Lanh, Dong Thap, Viet Nam, [11]An Giang Provincial Hospital, Long Xuyen, Viet Nam, [12]Wellcome Trust-Mahosot Hospital, Oxford Tropical Medicine Research Collaboration, Vientiane, Lao People's Democratic Republic

9:30 a.m.

579

CHARACTERIZATION OF *CAMPYLOBACTER COLI* FROM CHILDREN AGED FIVE YEARS OR LESS IN EGYPT (1995-2004)

John D. Klena, Dina Fahmy, Mark S. Riddle, David Rockabrand, Marshall R. Monteville, John Sanders

NAMRU-3, FPO, AE, United States

Scientific Session 91

Viruses II

Monroe East

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

James Meegan

Biological Defense Systems, Frederick, MD, United States

Barry Miller

Centers for Disease Control and Prevention, Fort Collins, CO, United States

8 a.m.

580

DEVELOPMENT OF A NEUTRALIZATION ASSAY FOR RIFT VALLEY FEVER VIRUS UTILIZING PSEUDOVIRIONS

Andrea F. Bertolotti-Ciarlet[1], Shaun M. Stewart[1], Claire Marie Filone[1], Mark Heise[2], Robert W. Doms[1]

[1]University of Pennsylvania, Philadelphia, PA, United States, [2]University of North Carolina, Chapel Hill, NC, United States

8:15 a.m.

581

TRANSMISSION OF RIFT VALLEY FEVER IN KENYA: RETROSPECTIVE SURVEY

Angelle Desiree LaBeaud[1], Eric Muchiri[2], Clarence J. Peters[3], Charles H. King[1]

[1]Case Western Reserve University: Center for Global Health and Diseases, Cleveland, OH, United States, [2]Ministry of Health; Division of Vector Borne Diseases, Nairobi, Kenya, [3]University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

582

VENEZUELAN EQUINE ENCEPHALITIS VIRUS EVOLUTION *IN VIVO* IS CONSTRAINED BY HOST ALTERATION

Lark L. Coffey[1], Aaron C. Brault[2], Nikos Vasilakis[1], Scott C. Weaver[1]

[1]University of Texas Medical Branch, Galveston, TX, United States, [2]University of California, Davis, CA, United States

8:45 a.m.

583

TOWARD A RECOMBINANT VACCINE AGAINST *FILOVIRUS* INFECTION — EXPRESSION AND IMMUNOGENICITY OF SOLUBLE VIRAL ANTIGENS

Axel T. Lehrer[1], Beth-Ann Coller[1], Carolyn L. Weeks-Levy[1], Alan McClelland[1], David E. Clements[1], Charmaine S. Aniya[1], Michael M. Lieberman[1], Teri-Ann S. Wong[1], Benjamin M. Kriederman[1], Steven A. Ogata[1], David F. Waller[1], Beverly Basilio[1], Eric M. Rohlinger[1], William S. Pratt[2], Russ Bakken[2], Mary Kate Hart[2]

[1]Hawaii Biotech, Inc., Aiea, HI, United States, [2]US Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

9 a.m.

584

EFFECTS OF AN OPAL TERMINATION CODON PRECEDING THE NSP4 GENE SEQUENCE IN THE O'NYONG NYONG VIRUS GENOME ON *ANOPHELES GAMBIAE* INFECTIVITY

Kevin M. Myles, Cindy L. Kelly, Jeremy P. Ledermann, Ann M. Powers

Centers for Disease Control and Prevention, Division of Vector Borne Infectious Diseases, Fort Collins, CO, United States

9:15 a.m.

585

ROSS RIVER VIRUS EVASION OF TYPE I INTERFERONS

Reed S. Shabman[1], Thomas E. Morrison[1], Laura White[1], Mehul S. Suthar[1], Kenya Madric[1], Suresh Mahalingam[2], Brett Lidbury[2], Christopher Moore[1], Mark T. Heise[1]

[1]University of North Carolina-Chapel Hill, Chapel Hill, NC, United States, [2]University of Canberra, Canberra, Australia

9:30 a.m.

586

HUMAN INFLUENZA SURVEILLANCE DURING A TIME OF H5N1 TRANSMISSION IN POULTRY IN INDONESIA

Agus Suwandowo[1], Andrew Jeremijenko[2], Herman Kosasih[2], Joko Yuwono[1], Chairin Ma'roef[2], Steven Bjorge[3], Nancy J. Cox[4], **Patrick J. Blair**[2]

[1]National Institute of Health Research and Development, Jakarta, Indonesia, [2]Naval Medical Research Unit-2, Jakarta, Indonesia, [3]World Health Organization, Jakarta, Indonesia, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 92

Mosquitoes Vector Biology — Epidemiology I

Monroe West

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

Frederic Tripet

University of California Davis, Davis, CA, United States

Doug Norris

John Hopkins School of Public Health, Baltimore, MD, United States

8 a.m.

587

GENETIC EVIDENCE THAT *CULEX PIPIENS MOLESTUS* IS LOCALLY FOUNDED FROM *CULEX PIPIENS* COMPLEX IN NORTH AMERICA

Rebekah J. Kent[1], Laura C. Harrington[2], Douglas E. Norris[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Cornell University, Ithaca, NY, United States

(ACMCIP Abstract)

8:15 a.m.

588

POPULATION STRUCTURE OF *CULEX PIPIENS* COMPLEX MOSQUITOES IN THE NORTHEASTERN UNITED STATES

Frances E. Edillo, Anthony E. Kiszewski, Andrew Spielman

Harvard School of Public Health, Boston, MA, United States

8:30 a.m.

589

ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS IN GENES LOCATED THROUGHOUT THE *ANOPHELES GAMBIAE* GENOME

Norma Gorrochotegui[1], Adama Sacko[1], Frederic Tripet[2], Michel Slotman[2], Greg C. Lanzaro[2], William C. Black[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]Department of Entomology, University of California Davis, Davis, CA, United States

8:45 a.m.

590

REPRODUCTIVE ISOLATION AMONG THE CRYPTIC TAXA OF ANOPHELES GAMBIAE: EVIDENCE FROM THE PATTERNS OF EMERGENCE AND SPREAD OF KNOCK-DOWN RESISTANCE TO PYRETHROIDS IN WEST AFRICA

Frederic Tripet[1], Jennifer Wright[1], Lisa Reimer[1], Michel Slotman[1], Gregory Lanzaro[1], Sekou Traore[2], Guimogo Dolo[2], Etienne Fondjo[3]

[1]University of California Davis, Davis, CA, United States, [2]Malaria Research Training Center, Faculty of Medicine and Pharmacy, University of Mali, Bamako, Mali, [3]Programme National de Lutte contre le Palludisme, Yaounde, Cameroon

9 a.m.

591

CONTRASTING PATTERNS OF DIFFERENTIATION BETWEEN THE M AND S MOLECULAR FORMS OF *ANOPHELES GAMBIAE* IN MALI AND CAMEROON

Michel A. Slotman[1], **Frederic Tripet**[1], Lisa Reimer[1], Tara Thiemann[1], Claudio Meneses[1], Abdrahamane Fofana[2], Rory McAbee[3], Anton Cornel[3], Etienne Fondjo[4], Giumogo Dolo[2], Sekou Traore[2], Gregory C. Lanzaro[1]

[1]University of California at Davis, Davis, CA, United States, [2]Malaria Training and Research Center, Bamako, Mali, [3]University of California at Davis, Parlier, CA, United States, [4]Ministere de la Sante Publique, Yaounde, Cameroon

9:15 a.m.

592

MICROSATELLITE ANALYSIS REVEALS GENETIC DIFFERENTIATION BETWEEN ENDOPHILIC AND EXOPHILIC *ANOPHELES ARABIENSIS* FROM BURKINA FASO

Federica Santolamazza[1], Erika Schielke[2], Melissa Garren[2], Marco Pombi[1], N'Fale Sagnon[3], **Alessandra della Torre**[1], Adalgisa Caccone[2], Jeffrey R Powell[2], **Carlo Costantini**[4]

[1]University of Rome, Rome, Italy, [2]University of Yale, New Haven, CT, United States, [3] Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, [4]Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso

9:30 a.m.

593

POPULATION STRUCTURE OF *ANOPHELES ARABIENSIS* AND *ANOPHELES GAMBIAE* IN NIGERIA USING SEQUENCES OF THE MTDNA *COI* GENE

Stacy D. Matthews[1], Lisa J. Meehan[2], David Y. Onyabe[3], **Jan E. Conn**[2]

[1]Dept. Biomedical Sciences, SPH, SUNY-Albany, Albany, NY, United States, [2]Wadsworth Center, NYSDOH, Slingerlands, NY, United States, [3]Aeras Global Tuberculosis Foundation, Rockville, MD, United States

Scientific Session 93

Malaria — Molecular Markers of Drug Resistance

Lincoln East

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

Chansuda Wongsrichanalai

NIPH/NAMRU-2, Phnon Penh, Cambodia

MIchael Ferdig

University of Notre Dame, Notre Dame, IN, United States

8 a.m.

594

IDENTIFICATION OF NOVEL MICROSATELLITE HAPLOTYPES FOR THE TRIPLE MUTANT *DHFR* ALLELE AND IDENTIFICATION OF HIGHLY RESISTANT *PLASMODIUM FALCIPARUM* IN AN AREA OF INTENSE TRANSMISSION IN AFRICA

Andrea M. McCollum[1], Amanda C. Poe[1], Mary Hamel[1], Curtis Huber[1], Zhiyong Zhou[1], Ya Ping Shi[1], Peter Ouma[2], John Vulule[2], Peter Bloland[1], Laurence Slutsker[2], John Barnwell[1], Venkatachalam Udhayakumar[1], Ananias A. Escalante[3]

[1]Centers for Disease Control and Prevention, Division of Parasitic Diseases, Malaria Branch, Atlanta, GA, United States, [2]Kenya Medical Research Institute, Centre for Vector Biology and Control Research, Kisumu, Kenya, [3]Arizona State University, School of Life Sciences, Tempe, AZ, United States

8:15 a.m.

595

CHARACTERIZATION OF SEGMENTAL AMPLIFICATIONS ON CHR 5 ASSOCIATED WITH MULTIDRUG RESISTANCE IN *PLASMODIUM FALCIPARUM*

Shalini Nair[1], Denae Nash[1], Dan Sudimack[1], François Nosten[2], Tim Anderson[1]

[1]Southwest Foundation for Biomedical Research, San Antonio, TX, United States, [2]Shoklo Malaria Research Unit, Mae Sot, Thailand

8:30 a.m.

596

THE ASSOCIATION BETWEEN PFMDR1 COPY NUMBER AND CLINICAL OUTCOME OF ARTESUNATE-MEFLOQUINE THERAPY FOR *PLASMODIUM FALCIPARUM* MALARIA IN PAILIN, CAMBODIA

Alisa P. Alker[1], Naman Shah[1], Rithy Sem[2], Poravuth Yi[2], Sina Nemh[3], Pharath Lim[4], Denis Mey Bouth[5], Reiko Tsuyuoka[5], Jason D. Maguire[6], Frederick Ariey[4], Thierry Fandeur[4], Chansuda Wongsrichanalai[7]

[1]Department of Epidemiology, University of North Carolina, Chapel Hill, NC, United States, [2]National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, [3]Pasteur Institute and National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, [4]Pasteur Institute, Phnom Penh, Cambodia, [5]World Health Organization (WHO/Cambodia), Phnom Penh, Cambodia, [6]U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia, [7]NIPH/NAMRU-2 Laboratory, Phnom Penh, Cambodia and U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia

8:45 a.m.

597

MICROSATELLITE POLYMORPHISM WITHIN PFCRT PROVIDES EVIDENCE OF CONTINUING EVOLUTION OF CHLOROQUINE RESISTANT HAPLOTYPES

Jeana T. DaRe[1], Rajeev K. Mehlotra[1], Moses Bockarie[1], John Reeder[2], Mark Stoneking[3], Peter A. Zimmerman[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, [3]Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

9 a.m.

598

GENETIC ANALYSIS OF THE *P. FALCIPARUM* SODIUM-PROTON EXCHANGER (PFNHE) AND ITS CONTRIBUTION TO QUININE RESISTANCE

Louis Nkrumah[1], Pedro Moura[1], Min Yu[1], Jigar Patel[2], Michael T. Ferdig[2], Thomas E. Wellems[3], **David A. Fidock**[1]

[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]University of Notre Dame, Notre Dame, IN, United States, [3]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

599

PFNHE POLYMORPHISMS ARE ASSOCIATED WITH QUININE USAGE IN MALI

Aminatou Kone[1], Jianbing Mu[2], Issaka Sagara[1], Christopher V. Plowe[3], Ogobara K. Doumbo[1], Thomas E. Wellems[2], Abdoulaye A. Djimde[1]

[1]University of Bamako, Mali, Bamako, Mali, [2]National Institutes of Health, Rockville, MD, United States, [3]University of Maryland, Baltimore, Baltimore, MD, United States

(ACMCIP Abstract)

9:30 a.m.

600

IDENTIFICATION OF A NOVEL MUTATION IN THE L4 PLASTID RIBOSOMAL PROTEIN IN *P. FALCIPARUM* AZITHROMYCIN-RESISTANT LINES

Amar Bir S. Sidhu[1], Michael W. Dunne[2], Lewis E. Drew[2], David A. Fidock[1]

[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]Pfizer Global Research and Development, New London, CT, United States

(ACMCIP Abstract)

Symposium 94

African Trypanosomiasis and Vector Based Disease Control

Lincoln West

Wednesday, December 14 8 – 9:45 a.m.

African trypanosomiasis has remained an orphan disease despite its devastating public health and agricultural/nutritional relevance. The speakers will review the disease epidemiology and update progress in the effort to better understand the role of the tsetse fly vector in parasite transmission with the goal of enhancing insect-based control strategies.

CHAIR

Serap Aksoy

Yale University School of Medicine, New Haven, CT, United States

Michael J. Lehane

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8 a.m.

EPIDEMIOLOGY OF HUMAN AFRICAN TRYPANOSOMIASIS: A CASE STUDY FROM UGANDA

Loyce Okedi

LIRI, Tororo, Uganda

8:25 a.m.

THE CURRENT PERSPECTIVE ON VECTORS OF AFRICAN TRYPANOSOMIASIS AND DISEASE CONTROL

Joseph N'dungu

KARI, Kikuyu, Kenya

8:45 a.m.

THE CURRENT STATUS OF AFRICAN TRYPANOSOMIASIS IN TANZANIA

Atway R. Msangi

TTRI, Tanga, Tanzania

9:05 a.m.

ROLE OF TSETSE POPULATION GENETICS IN DISEASE EPIDEMIOLOGY

Phillipe Solano

IRD, Burkina Faso

9:25 a.m.

NEW VECTOR-BASED APPROACHES TO TRYPANOSOMIASIS CONTROL

Serap Aksoy

Yale University, New Haven, CT, United States

Symposium 95

Bridging Pathogenesis and Pathology in Malaria

Supported with funding from the Burroughs Wellcome Fund

Jefferson East

Wednesday, December 14 8 – 9:45 a.m.

Linking functional genomics to disease pathologies remains a frontier in malaria. This has created great need for broad, integrated perspectives to understand the complexities pathogenic mechanisms, as well as acute and chronic disease pathologies. This symposium will bring together the latest developments in parasite molecular genetics, host remodeling as well as correlates of fatal disease and malarial immunity to integrate genomics and endemic disease.

CHAIR

Kasturi Haldar

Northwestern University, Chicago, IL, United States

8 a.m.

COMPLEX CORRELATES OF FATAL CEREBRAL MALARIA

Terrie Taylor

Michigan State University, East Lansing, MI, United States

8:35 a.m.

EMERGENT GENOME-WIDE GENETIC SCREENS FOR VIRULENCE DETERMINANTS IN *P. FALCIPARUM*

John Adams

University of Notre Dame, Notre Dame, IN, United States

9:10 a.m.

GLOBAL VIRULENCE STRATEGIES IN ERYTHROCYTE REMODELING BY *P. FALCIPARUM*

Kasturi Haldar

Northwestern University, Chicago, IL, United States

Symposium 96

New Horizons in Schistosomiasis: Research

Jefferson West

Wednesday, December 14 8 – 9:45 a.m.

Schistosomiasis continues to plague the developing world. This symposium will feature the latest and most exciting research from four investigators that have made important scientific contributions over the past few years. Some of the topics that will be discussed include: dendritic cells in vaccine induced immunity and type-2 response development, role of regulatory T cells in pathogenesis, and parasite genomics as a platform for novel drug discovery. This symposium is part one of a two part series, which will highlight "where we are" and "where we're going" in the field of schistosomiasis.

CHAIR

Thomas A. Wynn

National Institutes of Health, Bethesda, MD, United States

W. Evan Secor

Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.

INTRODUCTION

Thomas A. Wynn

National Institutes of Health, Bethesda, MD

8:05 a.m.

ACTIVATION AND FUNCTION OF DENDRITIC CELLS IN RESPONSE TO SCHISTOSOME EGG ANTIGENS: UNRAVELLING THE NETWORK

Andrew S. MacDonald

University of Edinburgh, Edinburgh, United Kingdom

8:30 a.m.

THE EGG-INDUCED INFLAMMATORY RESPONSE IN MURINE SCHISTOSOMIASIS IS SUPPRESSED BY NATURALLY- OCCURING REGULATORY T CELLS

Matthias Hesse

Cornell University, Ithaca, NY, Unites States

8:55 a.m.

MODULATION OF IMMUNE RESPONSES BY EARLY SCHISTOSOME INFECTIONS

Adrian P. Mountford

University of York, York, United Kingdom

9:20 a.m.

DISCOVERY DRIVEN APPROACHES TO STUDY SCHISTOSOME BIOLOGY

Karl F. Hoffmann

University of Cambridge, Cambridge, United Kingdom

Symposium 97

Infection Control in the Tropics: Managing Nosocomial Infection with Very Limited Resources

Georgetown East

Wednesday, December 14 8 – 9:45 a.m.

Providing health care in settings with limited resources and infrastructure poses unique challenges. Infection control joins sanitation and immunization as cost-effective interventions, but knowing where the first dollar should be spent is difficult. Outbreaks of hemorrhagic fever in Africa highlight how vulnerable the health systems are to aggressive pathogens. This symposium will look at what is known, and where to start when so much is unknown.

CHAIR

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, NY, United States

8 a.m.

OVERVIEW: WHAT DO WE KNOW ABOUT WHAT WORKS?

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, United States

8:25 a.m.

INFECTION CONTROL IN OUBREAKS OF HEMORRHAGIC FEVER (EBOLA, MARBURG) IN AFRICA

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, NY, United States

8:50 a.m.

PROGRESS IN SOUTH AMERICA: THE EXPERIENCE WITH INFECTION CONTROL IN BRAZIL

Silvia F. Costa

University of Sao Paulo, Sao Paulo, Brazil

9:15 a.m.

BARRIERS AND OPPORTUNITIES IN PROVIDING QUALITY HEALTH CARE IN AFRICA

Abdel Karim Koumare

National Medical Faculty in Mali, Bamako, Mali

Symposium 98

Host Immunomodulation by Helminth Parasites

Georgetown West

Wednesday, December 14 8 – 9:45 a.m.

Recent advances in the areas of functional geneomics and proteomics has made it possible to identify various molecular pathways that the helminth parasites use to evade host immune responses. Thus, the theme of this symposia would be to provide comprehensive new information on the molecular mechanisms of host immunomodulation by helminth parasites, more specifically schistosomes, filarial parasites and hookworm.

CHAIR

Ramaswamy Kalyanasundaram

University of Illinois, Rockford, IL, United States

CO-CHAIR

Stephen J. Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8 a.m.

MODULATION OF SCHISTOSOME DEVELOPMENT BY CD4+ T CELLS

Stephen J. Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8:30 a.m.

HELMINTH INDUCED REGULATORY T CELLS: THEIR ROLE IN THE ESTABLISHMENT AND PERSISTENCE OF INFECTION, AND CONTROL OF ALLERGY

Matthew Taylor

Institute of Immunology and Infection Research, Edinburgh, United Kingdom

8:55 a.m.

SCHISTOSOME DERIVED HIGH MOBILITY GROUP BOX (HMGB)-1 PROTEIN AND ITS ROLE IN HOST IMMUNOMODULATION

Ramaswamy Kalyanasundaram

University of Illinois, Rockford, IL, United States

9:20 a.m.

SELECTIVE INTERACTIONS OF HOOKWORM EXCRETORY/SECRETORY PRODUCTS WITH NATURAL KILLER CELLS

Stephinie Constant

George Washington University, Washington, DC, United States

Symposium 99

Emerging Diseases in Asia, Latin America and Africa

Organized by the International Federation of Tropical Medicine

International Ballroom East

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

Eduardo Gotuzzo
IMT 'Alexander Von Humboldtt', Lima, Peru

Thomas P. Monath
Acambis, Inc., Cambridge, MA

Claudio Ribeiro
Instituto Oswaldo Cruz, FIOCRUZ, Rio de Janeiro, Brazil

8 a.m.

IMPACT OF EMERGING DISEASES OF ASIA
Sornchai Looareesuwan
Mahidol University, Bangkok, Thailand

8:35 a.m.

MALARIA IN EUROPEAN TRAVELERS
Pierre Ambroise-Thomas
L'Eynardiere, Meylan, France

9:10 a.m.

EMERGING DISEASES OF LATIN AMERICA
Eduardo Gotuzzo
IMT 'Alexander Von Humboldtt', Lima, Peru

Scientific Session 100

Malaria — Diagnosis

International Ballroom West

Wednesday, December 14 8 – 9:45 a.m.

CHAIR

David J. Sullivan, Jr.
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Jean-Paul Chretien
Walter Reed Army Institute of Research, Silver Spring, MD, United States

8 a.m.

601

OPERATIONAL RESPONSE TO MALARIA EPIDEMICS: A COST EFFECTIVE ANALYSIS OF THE USE OF RAPID DIAGNOSTIC TESTS

Francesco Checchi[1], Estelle Rolland[1], Loretxu Pinoges[1], Suna Balkan[2], **Jean-Paul Guthmann**[1], Philippe Jean Guérin[1]

[1]Epicentre, Paris, France, [2]Médecins sans Frontières, Paris, France

8:15 a.m.

602

MAPPING OF THE EPITOPES RECOGNIZED BY PFHRPII-SPECIFIC MONOCLONAL ANTIBODIES ONTO THEIR PARASITE PROTEIN TARGET: IMPLICATIONS FOR PFHRPII-BASED MALARIA RAPID DIAGNOSTIC TESTS (RDTS)

Nelson Lee[1], Joanne Baker[2], Katherine Andrews[1], Michelle Gatton[1], David Bell[3], Qin Cheng[4], James S. McCarthy[1]

[1]QIMR, University of Queensland, Brisbane, Australia, [2]Department of Drug Resistance and Diagnostics, Australian Army Malaria Institute and University of Queensland, Brisbane, Australia, [3]West Pacific Regional Office, World Health Organisation, Manila, Philippines, [4]Department of Drug Resistance and Diagnostics, Australian Army Malaria Institute, Brisbane, Australia

8:30 a.m.

603

EVALUATION OF MALARIA SCREENING IN LIBERIAN REFUGEES BY BLOOD SMEAR AND RAPID ANTIGEN CAPTURE ASSAY (BINAX™). PRELIMINARY RESULTS

William M. Stauffer[1], Ashley Newberry[2], Charles Cartwright[2], Jon Rosenblatt[3], Kevan Hanson[2], Lynne Sloan[3], Dean Tsukayama[4], Charlotte Taylor[5], Billie Juni[5]

[1]University of Minnesota, Minneapolis, MN, United States, [2]Hennepin County Medical Center, Minneapolis, MN, United States, [3]Mayo Clinic, Rochester, MN, United States, [4]Hennepin Assessment Program, Minneapolis, MN, United States, [5]Minnesota Department of Health, Minneapolis, MN, United States

8:45 a.m.

604

QUALITY ASSURANCE FOR MALARIA CLINICAL TRIAL MICROSCOPY BASED ON THEORETICAL AND EMPIRICAL EVIDENCE

Jean-Paul Chretien[1], Wendy Prudhomme[2], Ken Awuondo[3], Doug Tang[4], Shon Remich[3], Bernard Ogutu[3], Ampon Nanakorn[3], Colin Ohrt[4]

[1]DoD-Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States, [2]National Institutes of Health, Bethesda, MD, United States, [3]US Army Medical Research Unit-Kenya, Kisumu, Kenya, [4]Walter Reed Army Institute of Research, Silver Spring, MD, United States

9 a.m.

605

DEVELOPMENT OF A RAPID, ACCURATE, LOW-COST MALARIA SCREENING ASSAY FOR EPIDEMIOLOGIC AND CLINICAL APPLICATIONS

Andrew B. Feldman[1], Nirbhay Kumar[2], Jeff Lin[1], Myaing Nyunt[3], John Pisciotta[2], Peter Scholl[2], David Sullivan[2], Phillip Thuma[4], Plamen Demirev[1]

[1]Johns Hopkins University, Applied Physics Laboratory, Laurel, MD, United States, [2]Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [3]Johns Hopkins School of Medicine, Baltimore, MD, United States, [4]Macha Malaria Institute, Choma, Zambia

9:15 a.m.

606

LASER DESORPTION MASS SPECTROMETRIC DETECTION OF MALARIA HEMOZOIN IN HUMAN CLINICAL SAMPLES

John M. Pisciotta[1], Andy B. Feldman[2], Plamen A. Demirev[2], Jeff S. Lin[2], Peter F. Scholl[1], Evelyne Kokoskin[3], David Sullivan[1]

[1]Johns Hopkins, Baltimore, MD, United States, [2]Johns Hopkins APL, Laurel, MD, United States, [3]McGill University, Montreal, PQ, Canada

9:30 a.m.

607

ELEVATED CHOLINE PHOSPHATE — A BIOMARKER FOR *IN VIVO* MALARIA PARASITE DETECTION BY MASS SPECTROMETRY

Plamen A. Demirev[1], John M. Pisciotta[2], Peter F. Scholl[2], David Sullivan[2], Nirbhay Kumar[2], Jeff S. Lin[1], Andrew B. Feldman[1]

[1]Johns Hopkins University, Laurel, MD, United States, [2]Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

Exhibit Hall Open

Exhibit Hall

Wednesday, December 14 9:30 – 10:30 a.m.

Coffee Break

Exhibit Hall

Wednesday, December 14 9:45 – 10:15 a.m.

Scientific Session 101

Filariasis III

Hemisphere

Wednesday, December 14 10:15 a.m. – Noon

CHAIR

Alan L. Scott

Johns Hopkins University, Baltimore, MD, United States

Yashodhara Dash

University of Connecticut Health Center, Farmington, CT, United States

10:15 a.m.

608

***BRUGIA MALAYI* L3 LARVAE SECRETE A CHEMOTACTIC FACTOR FOR HUMAN EOSINOPHILS THAT MIMICS A CCR3 LIGAND**

Yae-Jean Kim, Melissa Law, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

609

MEMORY RESPONSES TO B.PAHANGI L3 LARVAE IN INTRAPERITONEAL INFECTION MODEL IN MICE

Yashodhara Dash, Thiruchandurai V. Rajan

UCHC, Farmington, CT, United States

(ACMCIP Abstract)

10:45 a.m.

610

PERITONEAL EXUDATE CELLS SUPPORT THE L3-L4 MOLT OF BRUGIAN L3 LARVAE IN CO-CULTURE

Thiruchandurai V. Rajan, Carol McGuiness

University of Connecticut Health Center, Farmington, CT, United States

11 a.m.

611

HELMINTH INFECTION INDUCES PERSISTENT CHANGES IN LUNG DC POPULATIONS

Mark C. Siracusa, Josh J. Reece, Alan L. Scott

Johns Hopkins School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

11:15 a.m.

612

CD4+ T-CELLS ARE THE PREDOMINANT IL-10 PRODUCING CELLS IN THE CIRCULATION OF FILARIAL-INFECTED PATIENTS

Edward Mitre, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

11:30 a.m.

613

HELMINTH INDUCED REGULATORY T CELLS: THEIR ROLE IN THE ESTABLISHMENT AND PERSISTENCE OF INFECTION, AND CONTROL OF ALLERGY

Matthew D. Taylor[1], Mark S. Wilson[2], Constance A. Finney[1], Anjanette Harris[1], Judith E. Allen[1], Rick M. Maizels[1]

[1]University of Edinburgh, Edinburgh, United Kingdom, [2]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

(ACMCIP Abstract)

11:45 a.m.

614

BRUGIA MALAYI MICROFILARIAE INHIBIT MYCOBACTERIUM TUBERCULOSIS-INDUCED IFN? PRODUCTION BY CD4+ T CELLS IN A HUMAN COINFECTION MODEL

Kawsar R. Talaat, Thomas B. Nutman

National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

(ACMCIP Abstract)

Scientific Session 102

Bacteriology II — Diarrhea — Other

Military

Wednesday, December 14 10:15 – 11:45 a.m.

CHAIR

Theresa J. Ochoa

Baylor College of Medicine, Houston, TX, United States

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

10:15 a.m.

615

PREVENTING DIARRHEA FOLLOWING WATER EMERGENCIES: AN EVALUATION OF HOME-BASED CHLORINATION, WEST TIMOR, INDONESIA, 2004

Gavin J. Macgregor-Skinner[1], Endang Widyastuti[2], Khrisna Ardiani[2], Arte Pisceska[2], Robert Michael Hoekstra[1], Rob Quick[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]CARE International Indonesia, Jakarta, Indonesia

10:30 a.m.

1098

LOW RISK OF HEMOLYTIC UREMIC SYNDROME (HUS) FOLLOWING EARLY EFFECTIVE ANTIMICROBIAL THERAPY OF *SHIGELLA DYSENTERIAE* TYPE 1 INFECTION IN BANGLADESH

Michael L. Bennish[1], Wasif A. Khan[2], Monira Begum[2], Emily A. Bridges[3], Sabeena Ahmed[2], Debasish Saha[2], Mohammad A. Salam[2], David Acheson4, Edward T. Ryan[3]

[1]Africa Centre for Health and Population Studies, Mtubatuba, South Africa, [2]ICDDR,B: International Centre for Health and Population Research, Bangladesh, Dhaka, Bangladesh, [3]Massachusetts General Hospital, Tropical and Geographic Medicine Center, Division of Infectious Diseases, Boston, MA, United States, [4]Tufts-New England Medical Centre, Division of Geographic Medicine and Infectious Diseases, Boston, MA, United States

10:45 a.m.

617

AFTER THE FLOOD: AN EVALUATION OF IN-HOME DRINKING WATER TREATMENT WITH COMBINED FLOCCULENT-DISINFECTANT FOLLOWING TROPICAL STORM JEANNE — GONAIVES, HAITI, 2004

Romulo E. Colindres[1], Seema Jain[1], Anna Bowen[1], Polyanna Domond[2], Eric Mintz[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Population Services International, Port-au-Prince, Haiti

11 a.m.

618

EFFECT OF BOVINE LACTOFERRIN ON BACTERIAL PATHOGENS ASSOCIATED WITH PERSISTENT DIARRHEA

Theresa J. Ochoa[1], Chase E. Guion[2], Jane Z. Chen[2], Robert J. McMahon[3], Thomas G. Cleary[2]

[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]University of Texas Health Science Center at Houston, Houston, TX, United States, [3]Mead Johnson Nutritionals, Evansville, IN, United States

11:15 a.m.

619

PROTECTION AGAINST BOTULINUM NEUROTOXIN SEROTYPES A, B, AND C USING MIXTURES OF CANDIDATE VACCINES DERIVED FROM VENEZUELAN EQUINE ENCEPHALITIS (VEE) REPLICON VECTOR SYSTEM

Jennifer L. Groebner[1], John S. Lee[1], Kurt I. Kamrud[2], Leonard A. Smith[3], Theresa J. Smith[3], Cathleen M. Lind[1], Jeffrey D. Chulay[2], Jonathan F. Smith[2]

[1]Virology Division, USAMRIID, Frederick, MD, United States, [2]AlphaVax, Inc., Research Triangle Park, NC, United States, [3]Integrated Toxicology Division, USAMRIID, Frederick, MD, United States

11:30 a.m.

620

ORAL FLUID IGG TETANUS ANTITOXIN: A NOVEL TOOL FOR MEASURING IMMUNIZATION COVERAGE

Milagritos D. Tapia[1], Lilian Cuberos[1], Samba O. Sow[2], Mama N. Doumbia[2], Modibo Bagayogo[2], Marcela F. Pasetti[1], Karen Kotloff[1], Myron M. Levine[1]

[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]Centre pour le Developpement des Vaccins - Mali, Bamako, Mali

Symposium 103

Prospective Studies of Dengue Transmission and Disease in Kamphaeng Phet, Thailand

Monroe East

Wednesday, December 14 10:15 a.m. – Noon

Since 1998, children of Kamphaeng Phet, a rural province in north-central Thailand, have been the focus of an National Institute of Allergy and Infectious Diseases/MIDRP-funded prospective field study of dengue virus transmission and disease. Earlier this population participated in key field studies of vaccines against Japanese encephalitis and hepatitis A viruses. Dengue studies have yielded insightful new data on the dynamics of virus transmission in humans, immunologic correlates of disease, and entomological correlates to virus transmission. Participating investigators will summarize these data and discuss their relevance to future field studies, including evaluation of dengue vaccines.

CHAIR

Francis A. Ennis

University of Massachusetts Medical School, Worcester, MA, United States

Timothy P. Endy

Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:15 a.m.

BURDEN OF DENGUE INFECTION AND ILLNESS

Supamit Chunsuttiwat

Ministry of Public Health, Nonthaburi, Thailand

10:40 a.m.

DYNAMICS OF DENGUE VIRUS TRANSMISSION WITHIN THAI VILLAGES

Mammen P. Mammen, Jr.

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

11:05 a.m.

LONGITUDINAL TESTS OF ENTOMOLOGICAL ASSUMPTIONS FOR DENGUE CONTROL

Thomas W. Scott

University of California, Davis, Davis, CA, United States

11:30 a.m.

IMMUNOLOGIC CORRELATES OF DENGUE DISEASE

Alan L. Rothman

University of Massachusetts Medical School, Worcester, MA, United States

Scientific Session 104

Mosquitoes — Vector Biology — Epidemiology II

Monroe West

Wednesday, December 14 10:15 a.m. – Noon

CHAIR

Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Clare Strode

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

622

PROGRESS TOWARDS A SPECIFIC MICROARRAY FOR DETECTING INSECTICIDE RESISTANCE IN FIELD POPULATIONS OF MALARIA VECTORS

Hilary Ranson[1], Jean Philippe David[1], Clare Strode[1], Pie Muller[1], John Vontas[2]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Agricultural University of Athens, Athens, Greece

10:30 a.m.

623

THE DIFFERENTIAL GENE EXPRESSION OF DETOXIFICATION ENZYMES IN ADULT AND IMMATURE STAGES OF THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*

Clare Strode, Janet Hemingway, Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:45 a.m.

624

TEMPORAL CHANGES IN THE FREQUENCY OF THE *KNOCK-DOWN RESISTANCE* ALLELE (*KDR*) IN *ANOPHELES GAMBIAE* MOLECULAR FORM S FROM CENTRAL BURKINA FASO

Federica Santolamazza[1], Beniamino Caputo[1], Marco Pombi[1], Pamela Avellino[1], Nora J Besansky[2], N'Fale Sagnon[3], Carlo Costantini[4], **Alessandra della Torre**[1]

[1]University of Rome, Rome, Italy, [2]Notre Dame University, Notre Dame, IN, United States, [3]Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, [4]Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso

11 a.m.

625

A FRESH APPROACH EVALUATING ESTERASE B HETEROGENEITY OF CULEX PIPIENS COMPLEX POPULATIONS IN A TRANSECT FROM THE EASTERN UNITED STATES

Ling Zhou[1], Joseph H. Vineis[2], William G. Brogdon[1]

[1]Centers for Disease Control and Prevention, Chamblee, GA, United States, [2]New York State Department of Health, Slingerlands, NY, United States

11:15 a.m.

626

INSECTICIDE TREATED MATERIALS FOR THE CONTROL OF DENGUE VECTORS IN LATIN AMERICA

Audrey Lenhart[1], Philip McCall[1], Elci Villegas[2], Manuel Ochoa[3], Neal Alexander[4], Axel Kroeger[5]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Universidad de los Andes, Trujillo, Venezuela, [3]IMSS-Oportunidades, Veracruz, Mexico, [4]London School of Hygiene and Tropical Medicine, London, United Kingdom, [5]WHO-TDR, Geneva, Switzerland

11:30 a.m.

627

THE USE OF PYRIPROXYFEN FOR THE CONTROL OF *AEDES AEGYPTI* IN IQUITOS, PERU

Gregor J. Devine[1], Jeff Stancil[2], Elvira Zamora[3], Wagner Orellana[3], Moises Sihuincha[3], Carlos Vidal[3], Amy Morrison[4]

[1]Rothamstead Research, Harpenden, United Kingdom, [2]Naval Medical Research Center, Detachment, APO, AE, United States, [3]Direccion de Salud, Laboratorio Referencial, Iquitos, Peru, [4]University of California, Davis, CA, United States

11:45 a.m.

628

TUBE BIOASSAY FOR QUANTIFYING REPELLENCY, DETERENCY, AND TOXICITY OF INSECTICIDE-TREATED BEDNET MATERIALS PRESENTED TO ANOPHELES GAMBIAE S.S.

James R. Miller[1], Piera Siegert[1], Edward Walker[1], Philip McCall[2]

[1]Michigan State University, E. Lansing, MI, United States, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 105

Malaria — Clinical Trials and Trial Design

Lincoln East

Wednesday, December 14 10:15 a.m. – Noon

CHAIR

Martha M. Lemnge

Amani Medical Research Centre, National Institute for Medical Research, Tanga, United Republic of Tanzania

Ambrose Talisuna

Med Biotech Labs, Kampala, Uganda

10:15 a.m.

629

GENDER IMBALANCE IN PHASE 1 MALARIA VACCINE TRIALS IN AFRICA

Mahamadou A. Thera[1], Karim Traore[1], Abdoulaye K. Kone[1], Ando B. Guindo[1], Drissa Coulibaly[1], Issaka Sagara[1], Dapa A. Diallo[1], Alassane Dicko[1], Kirsten E. Lyke[2], Christopher V. Plowe[2], Ogobara K. Doumbo[1]

[1]Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali, [2]University of Maryland, School of Medicine, Baltimore, MD, United States

10:30 a.m.

630

CLINICAL CASE DEFINITIONS AND MALARIA VACCINE EFFICACY

William O. Rogers[1], Frank Atuguba[2], Abraham R. Oduro[2], Abraham Hodgson[2], Kwadwo A. Koram[3]

[1]Naval Medical Research Unit #3, Cairo, Egypt, [2]Navrongo Health Research Centre, Navrongo, Ghana, [3]Noguchi Memorial Institute for Medical Research, Accra, Ghana

10:45 a.m.

631

THE IMPACT OF DIAGNOSTIC TECHNIQUE ON VACCINE EFFICACY MEASUREMENTS IN CLINICAL TRIALS

Wendy Prudhomme O'Meara, F. Ellis McKenzie

Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

11 a.m.

632

A RANDOMIZED, DOUBLE BLINDED STUDY OF THE EFFICACY AND SAFETY OF TAFENOQUINE MONOTHERAPY FOR THE TREATMENT OF *PLASMODIUM VIVAX* IN ADULTS

Mark M. Fukuda[1], Srivicha Krudsood[2], Robert S. Miller[1], Krisada Jongsakul[1], Harald Noedl[1], Mali Ittiverakul[1], Nillawan Buathong[1], Sukhuma Warrasak[3], Ataya Euswas[3], Gobsiri Chalermrut[2], Noppadon Tangpukdee[2], Keith C. Deen[4], Colin Neate[4], Colin K. Ohrt[5], Sornchai Looareesuwan[2]

[1]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [2]Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, [3]Ramathibodi Faculty Hospital, Mahidol University, Bangkok, Thailand, [4]GlaxoSmithKline, Collegeville, PA, United States, [5]Walter Reed Army Institute of Research, Silver Spring, MD, United States

11:15 a.m.

633

INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY IN A RURAL AREA OF WESTERN KENYA: COMMUNITY-BASED ASSESSMENT TOWARDS IMPROVED COVERAGE

P.O. Ouma[1], A.M. van Eijk[2], Mary J Hamel[2], F. Odhiambo[1], E. Sikuku[1], A. Ayisi[1], A. Adazu[1], J. Vulule[1], L. Slutsker[2]

[1]Kenya Medical Research Institute, Centre for Vector Biology and Control, Western Kenya, Kenya[2] Centers for Disease Control and Prevention, Atlanta, GA

11:30 a.m.

634

MONITORING EFFICACY OF SULFADOXINE/PYRIMETHAMINE AND AMODIAQUINE AMONG UNDER-FIVES AT MOBILE CLINICS IN TWO COMMUNITIES IN MUHEZA, NORTHEASTERN TANZANIA

Martha M. Lemnge[1], Bruno Mmbando[1], Daniel Minja[1], Julius K. Mhina[1], Michael Alifrangis[2], Anita M. Ronn[3], Ib C. Bygbjerg[4]

[1]National Institute for Medical Research, Tanga, United Republic of Tanzania, [2]Centre for Medical Parasitology, Institute of Medical Microbiology and Immunology, University of Copenhagen, Copenhagen, Denmark, [3]Centre for Medical Parasitology, Copenhagen University Hospital, University of Copenhagen, Copenhagen, Denmark, [4]Centre for Medical Parasitology, Institute of Public Health, University of Copenhagen, Copenhagen, Denmark

11:45 a.m.

635

ANTIMALARIAL DRUG POLICY IN THE EASTERN AFRICA SUB-REGION: CHALLENGES FOR CHANGING TO COMBINATION THERAPY AT DIFFERENT LEVELS OF HEALTH CARE DELIVERY

John H. Ouma[1], Ambrose Talisuna[2]

[1]Maseno University, Via Kisumu, Kenya, [2]Ministry of Health, Kampala, Uganda

Symposium 106

African Trypanosomiasis: Molecular Aspects of Tsetse and Parasite Transmission

Lincoln West

Wednesday, December 14 10:15 a.m. – Noon

The speakers will present recent work on the interactive biology of trypanosomes within tsetse host, the role of tsetse immune responses during parasite transmission as well as progress made towards tsetse genomics and full genome sequence of Glossina.

CHAIR

Serap Aksoy

Yale University, New Haven, CT, United States

Neil Hall

The Institute for Genomic Research, Rockville, MD, United States

10:15 a.m.

ROLE OF TSETSE MIDGUT LECTINS DURING TRYPANOSOME TRANSMISSION

Michael J. Lehane

Liverpool School of Tropical Medicine, Pembroke Place Liverpool, United Kingdom

10:45 a.m.

MIDGUT PROTEINS INVESTIGATED FOR PARASITE TRANSMISSION

Terry Pearson

University of Victoria, Victoria, BC, Canada

11:10 a.m.

TSETSE SALIVARY GLAND PROTEINS

Jan Van den Abbeele

Institute of Tropical Medicine, Antwerp, Belgium

11:35 a.m.

GENOMICS RESOURCES FOR GLOSSINA

Win Hide

South African National Bioinformatics Institute, Bellville, South Africa

Symposium 107

Malaria Vaccine Technology Roadmap: Results of Collaboration and Next Steps

Jefferson East

Wednesday, December 14 10:15 a.m. – Noon

The Malaria Vaccine Technology Roadmap (TRM) uses a novel approach to provide a coherent framework through which to focus resources, facilitate partnerships, and identify multiple research pathways to a viable malaria vaccine. A series of meetings during the past year has brought together a diverse group of over 225 stakeholders, including scientists, donors, and public health leaders representing more than 35 countries and 100 organizations. They discussed the challenges hindering malaria vaccine development and identified activities to address them. The Roadmap features the high-level results from these working meetings and groups the activities proposed into a set of broad initiatives that the community could adopt to accelerate malaria vaccine development. This symposium will present the Roadmap to the ASTMH community, seeking its feedback and soliciting its involvement in this ongoing process.

CHAIR
Sarah Ewart
The PATH Malaria Vaccine Initiative, Seattle, WA, United States

10:15 a.m.

INTRODUCTION TO THE MALARIA VACCINE TECHNOLOGY ROADMAP

Regina Rabinovich
Bill and Melinda Gates Foundation, Seattle, WA, United States

10:40 a.m.

PRESENTATION OF ROADMAP RESULTS

Fred Binka
WHO, Geneva, Switzerland

11:05 a.m.

PRESENTATION OF THE ROADMAP INITIATIVES

Marie-Paule Kieny
WHO, Geneva, Switzerland

11:30 a.m.

PRESENTATION OF CURRENT ROADMAP ACTIVITIES AND NEXT STEPS

Melinda Moree
PATH Malaria Vaccine Initiative, Seattle, WA, United States

Symposium 108

New Horizons in Schistosomiasis: Where Do We Go From Here?

Jefferson West

Wednesday, December 14 10:15 a.m. – Noon

In recent years, researchers who study tuberculosis and filariasis have benefited greatly in terms of available funding by developing a cohesive agenda for their diseases. In contrast, certain avenues for funding in schistosomiasis have been limited by the lack of a consensus among investigators with respect to the questions of greatest significance. This symposium is designed to "start the conversation" about whether developing a more coordinated agenda is desirable, and if so, beginning to define what the elements of that agenda should be. In no way is this meant to limit the wide breadth of interesting research that schistosome researchers pursue, but the goal is to provide general accord that will better secure funding and investigators as we go forward. This symposium is part two of a two part series, which will highlight "where we are" and "where we're going" in the field of schistosomiasis.

CHAIR
W. Evan Secor
Centers for Disease Control and Prevention, Atlanta, GA, United States

Thomas A. Wynn
National Institutes for Health, Bethesda, MD, United States

10:15 a.m.

IT'S WORSE THAN WE THOUGHT: REASSESSING THE HEALTH BURDEN OF SCHISTOSOMIASIS

Charles H. King
Case Western Reserve University, Cleveland, OH, United States

10:45 a.m.

THE SUM OF THE WHOLE IS GREATER THAN THE SUM OF PARTS: EXPERIENCES OF THE GLOBAL ALLIANCE TO ELIMINATE LYMPHATIC FILARIASIS

Eric A. Ottesen
Rollins School of Public Health, Emory University, Atlanta, GA, United States

11:10 a.m.

YOU WANT MONEY FOR WHAT?????: PERSPECTIVES OF THE FUNDING AGENCIES

Stephanie L. James
National Institutes of Health Foundation, Bethesda, MD, United States

11:35 a.m.

RESEARCH TO CONTROL: SHOULD WE (COULD WE) FORMULATE A PLAN; WHO WILL AGREE TO WHAT; AT WHAT COST?

Daniel G. Colley
University of Georgia, Athens, GA, United States

Symposium 109

Preparation and Review of Scientific Manuscripts for the *American Journal of Tropical Medicine & Hygiene*

Georgetown East

Wednesday, December 14 10:15 a.m. – Noon

This symposium is aimed at trainees and others interested in understanding better how manuscripts are reviewed, edited and processed by the society's journal. Pointers on preparation and review of manuscripts will be stressed. The following topics will be covered. 1. Why and where to publish, i.e. selection of the 'right' journal for your work. 2. Examples of a paper in progress; how to prepare and how to write a good paper 3. The submission and review processes and how they work 4. How to properly review a paper 5. How to respond to reviewer comments 6. The publication process: what happens after your paper is accepted.

CHAIR

James W. Kazura

Case Western Reserve University, Cleveland, OH, United States

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

SELECTION OF THE 'RIGHT' JOURNAL FOR YOUR WORK: WHAT CONSTITUTES A WELL VERSUS POORLY WRITTEN MANUSCRIPT: THE EDITORIAL PROCESS

James W. Kazura

Case Western Reserve University, Cleveland, OH, United States

10:50 a.m.

THE SUBMISSION AND REVIEW PROCESS: ORGANIZATION AND NITTY-GRITTY DETAILS

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

11:25 a.m.

THE GOOD, BAD, AND UGLY OF THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

Joe Vinetz

University of California, San Diego, CA, United States

Symposium 110

Impact of Sex and Hormones on Parasitic Infections

Georgetown West

Wednesday, December 14 10:15 a.m. – Noon

The prevalence and intensity of infections caused by protozoa, nematodes, trematodes, cestodes, and arthropods generally is higher in males than females. Immunological differences exist between the sexes that may underlie increased parasitism in males as compared with females. Several field and laboratory studies link sex differences in immune function with circulating steroid hormones; thus, the roles of sex steroids, including testosterone, estradiol and progesterone will be addressed. The primary goal of this symposium is to increase awareness about the prevalence and causes of sex differences in response to parasites.

CHAIR

Sabra L. Klein

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:15 a.m.

ROLE OF HOST SEX IN SUSCEPTIBILITY TO FILARIAL INFECTION

T. V. Rajan

University of Connecticut Health Center, Farmington, CT, United States

10:45 a.m.

MECHANISMS OF SEX-DETERMINED RESISTANCE TO LEISHMANIA MEXICANA

Abhay R. Satoskar

Ohio State University, Columbus, OH, United States

11:10 a.m.

THE ROLE OF SEX STEROIDS IN HOST-PARASITE RELATIONSHIPS: THE CASE OF THE LARVAL CESTODE OF *TAENIA CRASSICEPS*

Jorge M. Montor

Universidad Nacional Autonoma de Mexico, Mexico City, Mexico

11:35 a.m.

INFLUENCE OF SEX AND HORMONES ON MALARIA INFECTION

Sabra L. Klein

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 111

Burroughs Wellcome Fund Symposium: New Initiatives in Malaria Awards

Supported with funding from the Burroughs Wellcome Fund

International Ballroom East

Wednesday, December 14 10:15 a.m. – Noon

This symposium is designed to review and update progress in basic malaria research, supported through the Burroughs Wellcome Fund's New Initiatives in Malaria program. This year, speakers will be talking when, where, and how the plasmodium and the host come together.

CHAIR
Victoria P. McGovern
Burroughs Wellcome Fund, Research Triangle Park, NC, United States

10:15 a.m.
GENETIC AND FUNCTIONAL DISSECTION OF SUSCEPTIBILITY TO MALARIA
Mary Stevenson
McGill University, Montreal, Quebec, Canada

10:45 a.m.
MATERNAL MALARIA AND CHONDROITIN SUFATE PROTEOGLUCANS
Channe Gowda
Pennsylvania State University, Hershey, PA, United States

11:10 a.m.
GENETIC DISSECTION OF MALARIA MORBIDITY
James W. Kazura
Case Western Reserve University, Cleveland, OH, United States

11:35 a.m.
THE FUNCTION OF SPOROZOITE MEMBRANE PROTEINS IN GENETICALLY ENGINEERED MALARIA PARASITES
Victor Nussenzweig
New York University, New York, NY, United States

Symposium 112

Current Controversies in the Clinical Management of Cystic Echinococcosis

International Ballroom West

Wednesday, December 14 10:15 a.m. – Noon

In recent years there have been significant advances in hydatid chemotherapy and in percutaneous treatment as alternatives to traditional operative surgery. There is however, no widely agreed protocol for the management of this condition. This symposium will discuss the evidence for and relative merits of the available treatment modalities, and discuss the way forward.

CHAIR
Peter L. Chiodini
The Hospital for Tropical Diseases, London, United Kingdom

Enrico Brunetti
University of Pavia, Pavia, Italy

10:15 a.m.
THE STATE OF THE ART OF MANAGING PATIENTS WITH CYSTIC ECHINOCOCCOSIS
Thomas Junghanss
University of Heidelberg, Heidelberg, Germany

10:45 a.m.
PERCUTANEOUS TECHNIQUES FOR DIAGNOSIS AND TREATMENT
Enrico Brunetti
University of Pavia, Pavia, Italy

11:10 a.m.
MEDICAL TREATMENT OF CYSTIC ECHINOCOCCOSIS
John Horton
The Paddock, Hitchin, United Kingdom

11:35 a.m.
IS THIS THE END OF THE ROAD FOR SURGICAL MANAGEMENT?
Antonio Menezes M. da Silva
Hospital Pulido Valente, Lisbon, Portugal

Burroughs Wellcome Fund — ASTMH Fellowship Committee Meeting

Chevy Chase

Wednesday, December 14 Noon – 1:30 p.m.

Exhibit Hall Open/Box Lunches

Exhibit Hall

Wednesday, December 14 Noon – 2:30 p.m.

Poster Session B

Exhibit Hall

Wednesday, December 14 Noon – 1:30 p.m.

Protozoa — Opportunistic Protozoa

24

ISOSPORIASIS AND FECAL EOSINOPHILIA

J.C. Petithory, F. Ardoin, L.R. Ash

Qualité en Parasitologie et Biologie, Centre Hospitalier 95500 Gonesse France; Department of Epidemiology, UCLA School of Public Health, Los Angeles, CA

Arthropods/Entomology — Other

636

MOLECULAR APPROACHES TO THE ANALYSIS OF EPIDEMIOLOGY, DRUG RESISTANCE AND HOST IMMUNE RESPONSES TO THE SCABIES MITE SARCOPTES SCABIEI

Deborah Holt, Kate Mounsey, Susan Pizzutto, Amy Slender, Shelley Walton

Menzies School of Health Research, Casuarina, Australia

(ACMCIP Abstract)

637

A STUDY OF STORAGE CONDITIONS FOR SAND FLY SAMPLES TO BE TESTED BY REAL TIME PCR

Lara Gilmore, Lisa Hochberg, Edgar Rowton, Phillip Lawyer, Russell Coleman

Walter Reed Army Institute of Research, Silver Spring, MD, United States

(ACMCIP Abstract)

638

GENETIC STRUCTURE OF *TRIATOMA INFESTANS* POPULATIONS FROM RURAL VILLAGES IN NORTHERN ARGENTINA

Paula L. Marcet[1], LeeAnn Jones[2], Ricardo E. Gürtler[1], Uriel Kitron[3], Ellen M. Dotson[2]

[1]University of Buenos Aires, Buenos Aires, Argentina, [2]Centers for Disease Control and Prevention - DPD - Entomology, Atlanta, GA, United States, [3]University of Illinois, Urbana, IL, United States

639

GENETIC STRUCTURE OF *TRIATOMA INFESTANS* POPULATIONS FROM NORTHERN ARGENTINA AND OTHER SOUTH AMERICA COUNTRIES BASED ON MITOCHONDRIAL DNA ANALYSIS

Paula L. Marcet[1], LeeAnn Jones[2], Romina Piccinali[1], Ricardo E. Gürtler[1], Uriel Kitron[3], Ellen M. Dotson[4]

[1]University of Buenos Aires, Buenos Aires, Argentina, [2]Centers for Disease Control and Prevention- DPD - Entomology, Atlanta, GA, United States, [3]University of Illinois, Urbana, IL, United States, [4]Centers for Disease Control and Prevention - DPD - Entomology, Atlanta, GA, United States

640

EFFECTS OF HEALTH SECTOR REFORM AND DECENTRALIZATION ON MALARIA ENDEMIC COLOMBIAN MUNICIPALITIES

Gabriel Carrasquilla[1], Olga L. Gómez[2], Julio C. Mateus[3]

[1]Fundación Santa Fe de Bogota, Bogotá, Colombia, [2]Fundación para la Educación Superior-FES, Cali, Colombia, [3]Universidad del Valle, Fundación para la Educación Superior-FES, Cali, Colombia

641

ACCEPTANCE OF INSECTICIDE TREATED NETS (ITNS) COMPARED TO ENTOMOLOGICAL DATA

Léa M. Pare Toe[1], A. Diabaté[1], R. Dabiré[1], Ole Skovmand[2], M. Akogbeto[3], T. Baldet[3]

[1]Centre Muraz, Bobo Dioulasso, Burkina Faso, [2]Intelligent Insect Control, Montpellier, France, [3]CIRAD, Montpellier, France

642

SALIVA OF THE TSETSE FLY *GLOSSINA PALPALIS* MODULATES ANTIGEN-STIMULATED IMMUNE EFFECTOR CELL FUNCTIONS IN A MOUSE MODEL

Donald E. Champagne[1], Serap Aksoy[2]

[1]University of Georgia, Athens, GA, United States, [2]Yale University School of Medicine, New Haven, CT, United States

(ACMCIP Abstract)

644

ANALYSIS OF AN EXPRESSED SEQUENCE TAG COLLECTION FROM THE SAND FLY LUTZOMYIA LONGIPALPIS AND ITS CONTRIBUTION TOWARDS UNDERSTANDING THE HOST-PARASITE RELATIONSHIP

Rod J. Dillon[1], Al C. Ivens[2], Bento Soares[3], Paul A. Bates[1], Mike J. Lehane[1]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]The Sanger Institute, Cambridge, United Kingdom, [3]University of Iowa, Iowa City, IA, United States

645

LABORATORY DEMONSTRATION OF THE ACQUISITION AND DEVELOPMENT OF *LEISHMANIA MAJOR* IN THE SAND FLY *PHLEBOTOMUS KAZERUNI* (DIPTERA: PSYCHODIDAE)

Hanafi Hanafi, David J. Fryauff, Elizabeth Dykstra, Daniel J. Szumlas

U.S. Naval Medical Research Unit No. 3, FPO AE, Egypt