

Bacteria – Diarrheal Diseases/Mucosal Immunity**646****DETECTION OF VIRULENCE GENES FROM HELICOBACTER PYLORI ISOLATED FROM PATIENTS WITH PEPTIC ACID DISEASE****Jose L Sanchez-Salas**¹, Erika Rello-Jeromin¹, Angeles Pavon², Laura V Pla¹¹Universidad De Las Americas, Puebla, Cholula, Puebla, Mexico; ²IMSS, Manuel Avila Camacho. Hospital de Especialidades, Puebla, Mexico, Puebla, Puebla, Mexico

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647**A CASE OF CHOLERA IN A TOURIST RETURNING FROM AN ALL-INCLUSIVE VACATION RESORT IN MEXICO****Julie Carson**¹, Kinga Kowalewska-Grochowska¹, Joy Jaipaul², Marcia Johnson², Darryl S. Stewart³¹University of Alberta, Edmonton, AB, Canada, ²Capital Health (Public Health Division), Edmonton, AB, Canada, ³Leduc General Hospital, Leduc, AB, Canada**648****REAL-TIME PCR FOR THE AMPLIFICATION OF THE IPAH GENE REFLECTS THE TRUE BURDEN OF SHIGELLOSIS IN ENDEMIC AREAS****May Sherif**¹, Zaynab Mohran¹, Mostafa Sadek¹, Rania Abdelkhaliq¹, Atef El-Gendy¹, Hind Shaheen¹, John , Klena¹, Shan Putnam², David Rockabrand¹, Marshall Monteville¹, Mark Riddle¹, John Sanders¹, Robert W. Frenck³¹US Naval Medical Research Unit-3, Cairo, Egypt, ²US Naval Medical Research Unit-2, Jakarta, Indonesia, ³Harbor-UCLA Medical Center, Torrance, CA, United States**Bacteria – Other****649****COST-EFFECTIVENESS OF BRUCELLOSIS CONTROL PROGRAMS – EGYPT, 2004****Diane K. Gross**¹, Kaushik Mukhopadhyaya¹, Thomas H. Taylor¹, Brian Plikaytis¹, Martin I. Meltzer¹, Sonal Pathak¹, Maha Talaat², Greg Jennings², Amgad El Kholy², Hassan Shafik³, Nasr El-Sayed⁴, Rana Hajjeh², Thomas A. Clark¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²NAMRU-3, Cairo, Egypt, ³Egyptian General Organization for Veterinary Services, Cairo, Egypt, ⁴Egyptian Ministry of Health, Cairo, Egypt**650****CHRONIC TUBERCULOUS ARTHRITIS AFTER TRAUMA****Farah Shams**, Deborah Asnis, David Di John, Alicia Lazzara, Charles Lombardi

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651**STANDARDIZATION OF SERODIAGNOSIS FOR LYME DISEASE INFECTION IN THE TAIWAN AREA****Chien-Ming Shih**¹, Ying-Chun Chen¹, Li-Lian Chao¹, Hsu-Mei Hsu²¹Department of Parasitology and Tropical Medicine, National Defense Medical Center, Taipei, Taiwan Republic of China, ²Centers for Disease Control, Department of Health, Taipei, Taiwan Republic of China**652****SEROEPIDEMIOLOGY OF LYME DISEASE INFECTION IN TAIWAN****Li-Lian Chao**, Ying-Chun Chen, Chien-Ming Shih

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Bacteria – Systemic Infections**653****DETECTION AND IDENTIFICATION OF PATHOGENIC AND SAPROPHYTIC LEPTOSPIRA STRAINS BY A PCR MATRIX APPROACH USING MULTIPLE PRIMERS****Joshua S. Hawley**, Raven E. Reitstetter, Barbara A. Reeb, Sandra K. Stuart, Mirium L. Beckius, Clinton K. Murray, Duane R. Hospenthal

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654**LABORATORY-BASED SURVEILLANCE FOR PATIENTS WITH ACUTE MENINGITIS IN SUDAN, 2004-2005****Mubarak S. Karsany**¹, Salma A. Afifi², Magdy Salih¹, Babikr Magboul¹, Osman Bilail¹, Billah El-Hassan³, Ahmed El-Fadel³, Ali Younis³, Gaffar Bin-Ouf³, Nadia Teleb⁴, Guillermo Pimentel², Rana Hajjeh⁵¹Federal Ministry of Health, Khartoum, Sudan, ²NAMRU-3, Cairo, Egypt, ³Khartoum State Health Department, Khartoum, Sudan, ⁴WHO/EMRO, Cairo, Egypt, ⁵US Naval Medical Research Unit # 3, Cairo, Egypt; Centers for Disease Control and Prevention, Atlanta, GA, United States**655****OUTBREAK OF TYPHOID FEVER, WESTERN PROVINCE, KENYA – 2004**A. S. Manyal¹, I. Sifuna², C. Onyango³, F. Amudavi², J. Onteri⁴, I. Wasike², J. Gehrke⁵, C. Nzioka⁴, K. Winger⁶, R. Novak⁶, **Thomas A. Clark**⁶, L. Harris⁶, M. Ari⁶, M. Bird⁶, E. Mintz⁶, J. Singleton⁶, A. Loftis⁶, J. Moriarty⁶, J. McQuiston⁶, D. Swerdlow⁶, J. Drobeniuc⁶, G. Armstrong⁶, R. Coldren⁵, R. Breiman⁷, D. Feikin⁷¹Centers for Disease Control and Prevention, Kenya, Nairobi, Kenya, ²Bungoma District Medical Office, Bungoma, Kenya, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Kenya Ministry of Health, Nairobi, Kenya, ⁵Walter Reed Program, Kenya, Nairobi, Kenya, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷International Emerging Infections Program, Kenya, Nairobi, Kenya

Cestodes — Cysticercosis

656

A SIMPLE DIAGNOSTIC PROCEDURE FOR *TAENIA SOLIUM* TAENIASIS

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657

SENSITIVITY AND SPECIFICITY OF COPROANTIGEN DETECTION BY F.A.S.T.-ELISA IN DIAGNOSING HUMAN TAPEWORM (*TAENIA SOLIUM*) INFECTIONS

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658

INFORMATION SYSTEM FOR MANAGING THE ELIMINATION PROGRAM OF CYSTICERCOSIS IN PERU

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Clinical Tropical Medicine

659

PARTITIONING OF THE NEW ANTIMALARIAL PRODRUG DB289 AND ITS ACTIVE DIAMIDINE, DB75, INTO MALARIA-INFECTED AND NON-INFECTED HUMAN AND MOUSE ERYTHROCYTES *IN VITRO*

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660

IMPORTED TYPHOID FEVER IN CHILDREN, A 20-YEAR EXPERIENCE

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661

CAUSES OF DEATHS USING VERBAL AUTOPSY AMONG ADOLESCENTS AND ADULTS IN RURAL WESTERN KENYA

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662

THE CONNECTION BETWEEN HEPATITIS C VIRUS AND SCHISTOSOMIASIS IN EGYPT

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663

DETECTION AND QUANTIFICATION OF *CRYPTOSPORIDIUM PARVUM* IN HUMAN FECAL SPECIMENS USING REAL-TIME PCR

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664

Q FEVER (*COXIELLA BURNETII*) INFECTION IN SOUTHERN CALIFORNIA, THE ZONOTIC DISEASE CONTINUES. A CASE SERIES OF SIX PATIENTS PRESENTING WITH SIGNS AND SYMPTOMS OF THIS INTRACELLULAR MICROORGANISM

Mario L. Perez, Carolann R. Rosario, Jeffrey D. Cao, Veena M. Singh, Michael B. Ing

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665

VALIDATION OF A MURINE MODEL OF HUMAN GROWTH-STUNTING UNDERNUTRITION. THE RELATIONSHIP BETWEEN WEIGHT-FOR-AGE, BODY COMPOSITION, SERUM LEPTIN, SERUM CORTICOSTERONE, AND HEPATIC INSULIN-LIKE GROWTH FACTOR-1 EXPRESSION

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666

PERSISTENCE OF NEUTRALIZING ANTIBODIES AFTER ONE INJECTION OF MONOVALENT CHIMERIVAX DENGUE 2 VACCINE

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667

COMPARISON OF CLINICAL FEATURES AND HEMATOLOGIC ABNORMALITIES BETWEEN DENGUE FEVER AND DENGUE HEMORRHAGIC FEVER AMONG CHILDREN IN THE PHILIPPINES

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668

SENSITIVITY OF ANTIBIOTIC RESISTANT ESCHERICHIA COLI AND STAPHYLOCOCCUS SAPROPHYTICUS ISOLATED FROM FEMALE PATIENTS SUFFERING FROM URINARY TRACT INFECTIONS TO SOME SELECTED MEDICINAL PLANTS

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669

LONG-TERM SURVEILLANCE OF SUBJECTS IMMUNIZED WITH LIVE ATTENUATED TETRAVALENT DENGUE VACCINE IN THAILAND

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671

SHIRKING THE WORM: A QUESTION OF TREATMENT DELAY

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672

DEVELOPING NATIONAL AND INTERNATIONAL STRATEGIES FOR DISASTER PREPAREDNESS AND RESPONSE

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673

DETECTION OF CRYPTOSPORIDIUM SPP. IN STOOL BY MULTIPLEX REAL-TIME PCR

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674

TRAVEL CONSULTATIONS FOR IMMIGRANT CHILDREN AT AN INNER-CITY HOSPITAL IN THE BRONX, NEW YORK 2003-2004

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675

RICKETTSIAL INFECTIONS ARE COMMON CAUSES OF FEVER AMONGST ADULTS IN THE LAO PDR

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676

REACTIVITY OF BLOOD SAMPLES SPOTTED ONTO FILTER PAPERS IN THE WST-8 METHOD FOR SCREENING OF G6PD DEFICIENCY

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677

APPLICATION OF MEDICAL INFORMATICS TO INVESTIGATE ETIOLOGIES OF PEDIATRIC SEVERE MALARIAL ANEMIA IN A PLASMODIUM FALCIPARUM HOLOENDEMIC AREA

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678

A RECENT HISTORY OF LEISHMANIA, MALARIA, AND OTHER ENDEMIC DISEASES IN IRAQ

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679

PATTERNS OF GENE EXPRESSION THAT CHARACTERIZE OUTCOMES OF PLASMODIUM FALCIPARUM INFECTION

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680

TREATMENT OF MALARIA DURING PREGNANCY IN SOUTHERN VENEZUELA

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681

TREATMENT OF MULTIDRUG-RESISTANT FALCIPARUM MALARIA DURING PREGNANCY WITH MEFLOQUINE-ARTESUNATE IN VENEZUELA: PRELIMINARY RESULTS

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682

MALARIA AMONG PREGNANT WOMEN LIVING ON THE VENEZUELAN-GUYANAN BORDER

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683

MEDICAL SCREENING AND SYPHILIS IN IMMIGRATION APPLICANTS TO CANADA — 2000 TO 2004

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684

INTERACTION PARTNERS OF SCABIES MITE INACTIVATED PROTEASE PARALOGUES

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685

CLINICAL AND EPIDEMIOLOGICAL CHARACTERISTICS OF HUMAN WEST NILE VIRUS INFECTION PRESENTING TO SELECTED HEALTHCARE FACILITIES IN SAN BERNARDINO AND RIVERSIDE COUNTIES, CALIFORNIA, 2004

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686

DETECTION OF ANTIBODIES AGAINST FASCIOLA HEPATICA IN PATIENTS WITH LIVER CIRRHOSIS IN PERU

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687

RAPID ESTABLISHMENT OF AN INFECTIOUS DISEASES DIAGNOSTICS LABORATORY AND THE GENERAL ABSENCE OF OUTBREAKS IN THE MONTHS FOLLOWING THE TSUNAMI DISASTER IN NORTHERN SUMATRA, INDONESIA

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688

INTERNATIONAL HEALTH CARE ADVICE AND TREATMENT DURING AUTOMOBILE SELF-DRIVE CULTURE ACTIVITY OF ROUND TRIP FROM CHINA TO FRANCE

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689

SUPPLYING HEALTH CARE AND EPIDEMIC INFORMATION FOR INTERNATIONAL TRAVELLERS USING INTERNET WEBSITE

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690

MALARIA SURVEY AND MOLECULAR ANALYSIS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS IN SOUTHEAST ASIAN COUNTRIES

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691

THROMBOCYTOPENIA AND PLASMODIUM VIVAX MALARIA IN ADANA, EASTERN MEDITERRANEAN COAST OF TURKEY

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692

DEFINING SICK BUILDING SYNDROME IN ADULTS AND CHILDREN AS A CASE-CONTROL SERIES AS A BIOTOXIN-ASSOCIATED ILLNESS: DIAGNOSIS, TREATMENT AND DISORDERS OF INNATE IMMUNE RESPONSE, MSH, SPLIT PRODUCTS OF COMPLEMENT, IL-1B, IL-10, MMP9, VEGF, AUTOIMMUNITY AND HLA DR

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693

C3A AND C4A: COMPLEMENT SPLIT PRODUCTS IDENTIFY PATIENTS WITH ACUTE LYME DISEASE

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694

PRESCRIPTION AND ADMINISTRATION OF A 14-DAY REGIMEN OF ZINC TREATMENT FOR CHILDHOOD DIARRHEA IN MALI

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695

MMP9, VISUAL CONTRAST SENSITIVITY, C3A, C4A AND HLA DR: NEW DIAGNOSTIC AIDS IN ACUTE AND CHRONIC LYME DISEASE

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696

AN OVERVIEW OF THE STEPS REQUIRED TO GAIN CAP ACCREDITATION FOR A CLINICAL LABORATORY RUNNING A MOLECULAR ASSAY FOR THE DIAGNOSIS OF CUTANEOUS LEISHMANIASIS

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697

A CROSS-SECTIONAL, CASE-FINDING STUDY OF TRAVELERS' DIARRHEA AMONG U.S. MILITARY PERSONNEL DEPLOYED TO IRAQ

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698

DEVELOPMENT AND VALIDATION OF AN FDA-CLEARED REAL-TIME PCR DIAGNOSTIC KIT FOR OLD WORLD CUTANEOUS LEISHMANIASIS

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699

REACTIVE NITROGEN INTERMEDIATES IN *PLASMODIUM VIVAX* MALARIA IN CUKUROVA REGION, TURKEY

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700

HOSPITAL-BASED SURVEILLANCE FOR DIARRHEA: A DESCRIPTIVE STUDY OF ABU HOMOS DISTRICT HOSPITAL, MAY 2000 TO MAY 2005

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701

EPIDEMIOLOGY OF DIARRHEA AMONG DEPLOYED MILITARY PERSONNEL IN SUPPORT OF OPERATION IRAQI FREEDOM AND OPERATION ENDURING FREEDOM

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702

A PROSPECTIVE STUDY OF TRAVELERS' DIARRHEA IN A COHORT OF UNITED STATES MILITARY PERSONNEL ON DEPLOYMENT TO THE MULTINATIONAL FORCE AND OBSERVERS, SINAI, EGYPT

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703

ALTERNATIVE CELLULAR ENERGY BASED THERAPY OF CHILDHOOD DIARRHEA

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704

INTRODUCING ZINC INTO ROUTINE TREATMENT OF ACUTE DIARRHEA: IMPACT ON THE MANAGEMENT OF DIARRHEA IN CHILDREN IN RURAL MALI

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706

USE OF AN ELECTRONIC SURVEILLANCE SYSTEM (ALERTA) TO DETECT A DENGUE OUTBREAK AMONG A PERUVIAN NAVY POPULATION IN IQUITOS, PERU

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707

LOCAL TERMINOLOGY FOR MEDICINES USED TO TREAT MALARIA IN BOUGOUNI DISTRICT, MALI: IMPLICATIONS FOR PROGRAMS, EVALUATIONS AND THE INTRODUCTION OF NEW MALARIA TREATMENT POLICIES

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708

A TIME SERIES ANALYSIS OF THE SEASONAL PATTERN OF CONSULTATION RATES FOR MALARIA, ACUTE RESPIRATORY INFECTION AND DIARRHEA IN NIONO HEALTH DISTRICT, MALI

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709

SELF-EVALUATION OF AN ELECTRONIC DISEASE SURVEILLANCE SYSTEM IN A REMOTE, RESOURCE LIMITED SETTING: ALERTA DISAMAR IN PERU

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710

G6PD-DEFICIENCY: IMPLICATIONS IN PUBLIC HEALTH AND DRUG DEVELOPMENT

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711

ANTIBODY RESPONSES AND MALARIA IN PREGNANT WOMEN LIVING IN A HYPOENDEMIC P. VIVAX AND P. FALCIPARUM TRANSMISSION REGION OF PERU

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712

DOTS PROGRAM MONITORING AT THE TUBERCULOSIS UNIT AT BALLABGARH, HARYANA, INDIA: IDENTIFYING TRENDS AND SETTING PRIORITIES

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713

MARKOV MODEL OF THE PREVALENCE AND ECONOMIC BURDEN OF CHAGAS' DISEASE IN LATIN AMERICA AND THE CARIBBEAN

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714

SYMPTOMS ASSOCIATED WITH P. FALCIPARUM AND P. VIVAX INFECTION DURING LONGITUDINAL FOLLOW-UP IN A PERUVIAN COMMUNITY WITH LOW MALARIA TRANSMISSION

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715

EVALUATION OF LEPTOSPIROSIS BY POLYMERASE CHAIN REACTION (PCR) IN CULTURED SAMPLES AND CULTURE POSITIVE PACKED RED BLOOD CELLS

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(ACMCIP Abstract)

716

GENOTYPIC CHARACTERIZATION OF RICKETTSIA PROWAZEKII CAIRO 3 BY MULTILOCUS SEQUENCING

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643

A HIGH THROUGHPUT SCREENING METHOD TO IDENTIFY TICK SALIVARY ANTIGENS ELICITING A CELLULAR IMMUNE RESPONSE IN TICK SENSITIZED HOSTS

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(ACMCIP Abstract)

717

DENDRITIC CELL IMMUNIZATION USING TICK SALIVARY PROTEINS TO PREVENT TICK TRANSMITTED BORRELIA BURGDORFERI INFECTION

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718

DEVELOPMENT OF A RAPID HAND-HELD POINT OF CARE ANTIGEN DETECTION ASSAY FOR ORIENTIA TSUTSUGAMUSHI — PRELIMINARY RESULTS

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719

USE OF GIS TO ASSESS RELATIVE RISK IN DIFFERENT BIOTOPES WITHIN ENDEMIC SCRUB TYPHUS AREAS

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Flaviviridae — Dengue

720

SENSITIVITY OF DENGUE VIRUS ISOLATION BY C6/36 CELL CULTURE AND MOSQUITO INOCULATION OF NESTED RT-PCR POSITIVE CLINICAL SAMPLES

Ananda Nisalak¹, Richard G. Jarman¹, Siripen Kalayanarooj², Sumitda Narupiti¹, Vipa Thirawuth¹, Naowaybol Nutkamhang¹, Pairote Tararut¹, Panor Srisongkram¹, Mammen P. Mammen¹

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721

MOLECULAR CHARACTERIZATION OF DENGUE VIRUSES CIRCULATING IN THAILAND

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722

IMPROVED SENSITIVITY OF DENGUE VIRUS DETECTION BY REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION (RT-PCR) USING WHOLE BLOOD COMPARED TO SERUM OR PLASMA

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723

IMPROVED SENSITIVITY OF DENGUE VIRUS DETECTION BY THE REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION (RT-PCR) USING QIAAMP VIRAL RNA KIT COMPARED TO TRIZOL

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724

CLIMATIC CHANGES RELATED TO EPIDEMICS OF DENGUE IN TAIWAN, 1987-2002

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725

FACTORS AFFECTING THE DISTRIBUTION OF DENGUE IN PUNTARENAS, COSTA RICA, AND THE APPLICATION OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEMS

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726

FREQUENCY AND PHENOTYPIC ANALYSIS OF DENGUE EPIOTOPE-SPECIFIC T CELLS IN INFECTED THAI SUBJECTS DURING ACUTE ILLNESS AND CONVALESCENCE

Hema S. Bashyam¹, Tomoko Toyosaki-Maeda¹, Henry A. Stephens², Mammen P. Mammen³, Timothy P. Endy⁴, David W. Vaughn⁴, Siripen Kalayanarooj⁵, Daniel H. Libraty¹, Sharone Green¹, Francis A. Ennis¹, Alan L. Rothman¹

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727

EFFECT OF DENV3 INFECTION OF PRIMARY HUMAN DENDRITIC CELLS

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728

VIROLOGICAL PARAMETERS OF RECENT DENGUE HEMORRHAGIC FEVER OUTBREAK IN SRI LANKA

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729

TEMOSPATIAL DISTRIBUTION OF CLUSTERING DENGUE CASES IN KAOHSIUNG, 2001-2003

Chih-Chun Kan¹, Neal H. Lin², Chuin-Shee Shang², Tsung-Shu Wu², Tzai-Hung Wen³, Min-Hui Wu², Konan Peck⁴, Pei-Fen Lee⁵, I-Chuin Fan⁶, Wu-Hsiung Tsai⁷, Hui-Chu Chen⁷, Pei-Yun Shu⁷, Shu-Hui Tseng⁷, Chwan-Chuen King²

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730

GENETIC VARIATION OF DENGUE VIRUSES CIRCULATING IN THAILAND

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(ACMCIP Abstract)

731

DENGUE VIRUS INDUCES PRODUCTION OF TRANSFORMING GROWTH FACTOR β 1 — A POTENTIAL MECHANISM FOR IMMUNE REGULATION

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(ACMCIP Abstract)

732

PEPTIDE INHIBITORS OF FLAVIVIRUS INFECTIVITY

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733

PREVALENCE OF DENGUE-2 VIRUS IN NEARBY CARIBBEAN ISLANDS

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734

IMMUNOGENICITY STUDIES OF DENGUE- 2 DNA VACCINE CANDIDATES**Teresita Garcia**, Idali Martinez*University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico*

735

DEVELOPMENT OF BIOASSAYS TO MEASURE INTERFERON ANTAGONISM OF DENGUE STRAINS**Jorge L. Munoz-Jordan**¹, Xiomara Mercado², Gary G. Clark¹*¹Centers For Disease Control and Prevention, San Juan, Puerto Rico, ²Recinto de Ciencias Medicas, Universidad de Puerto Rico, San Juan, Puerto Rico*

736

ADEQUATE PERFORMANCE OF A FAST METHOD FOR DETERMINATION OF ANTI-DENGUE IGM ANTIBODIES**Maria Garcia**, Nancy Merino, Enrique Mamani, Victoria Gutierrez, Tomas Paredes, Miguel Farfan, Miguel Cobos, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

737

RUBELLA SURVEILLANCE AND SUSPICION OF DENGUE OUTBREAKS: NEED FOR A SYNDROMIC APPROACH**Maximo Espinoza**, Edwin Cabezudo, Ana Cecilia Ortiz, Maria Garcia, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

738

RAPID ISOLATION OF DENGUE 3 VIRUS WITH SHELL VIAL METHOD IN THE OUTBREAK OF COMAS, LIMA, 2005**Victoria Gutierrez**, Miriam Palomino, Marcela Olivares, Gissella Noroña, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

739

USE OF THE DETERMINATION OF THE ANTI-DENGUE IGM ANTIBODY IN PATIENTS WITH LESS THAN 5 DAYS OF ONSET OF SYMPTOMS**Maria Garcia**, Nancy Merino, Enrique Mamani, Victoria Gutierrez, Tomas Paredes, Miguel Farfan, Miguel Cobos, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

740

KNOWLEDGE, ATTITUDE AND PRACTICE (KAP) ABOUT DENGUE IN PEOPLE GOING TO THE OUTPATIENT DEPARTMENT IN THE HEALTH CENTRE TAHUAN-TINSUYO BAJO, INDEPENDENCIA, LIMA, PERU**Victoria Gutierrez**, Gissella Noroña, Nancy Merino, Lely Solari, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

741

A VENEZUELAN EQUINE ENCEPHALITIS REPLICON-BASED DENGUE VACCINE INDUCES NEUTRALIZING ANTIBODIES IN MICE IN THE PRESENCE OF ANTI-DENGUE MATERNAL ANTIBODIES**Laura J. White**¹, Melissa Parsons¹, Aravinda de Silva², Robert E. Johnston¹*¹Carolina Vaccine Institute, University of North Carolina, Chapel Hill, NC, United States, ²University of North Carolina, Chapel Hill, NC, United States*

742

ROLES OF CHEMOKINE AND CHEMOKINE RECEPTORS IN PATIENTS OF DENGUE HEMORRHAGIC FEVER IN TAIWAN**Chwan-Chuen King**¹, Cho-Kuang Shen¹, Hui-Ting Wang¹, Fung Liao², Day-Yu Chao¹, Betty Wu-Hsieh³*¹Institute of Epidemiology, College of Public Health, National Taiwan University, Taipei, Taiwan Republic of China, ²Institute of Biomed. Sci., Academia Sinica, Taipei, Taiwan Republic of China, ³Institute of Immunology, College of Medicine, National Taiwan University, Taipei, Taiwan Republic of China*

(ACMCIP Abstract)

743

INITIAL RESULTS OF THE DEVELOPMENT OF A SWINE INTERMEDIATE ANIMAL MODEL FOR DENGUE INFECTION**Jaimie Robinson**, Jeffrey A. Tjaden, Timothy H. Burgess, Kevin R. Porter, Jorge Pardo, Hemavathy Subramanian, Tadeusz Kochel*Naval Medical Research Center, Silver Spring, MD, United States*

744

APPLICATION OF A CLINICAL CASE DEFINITION FOR DENGUE FEVER IN PATILLAS, PUERTO RICO**Mark E. Beatty**¹, Jorge Munoz¹, Miriam Rodriguez², Gary Clark¹, Aurimar Ayala¹, Centro de Servicios Primarios de Salud Research Group²*¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Centro de Servicios Primarios de Salud, Patillas, PR, United States***Flaviviridae – Other**

745

PERSISTENT ST. LOUIS ENCEPHALITIS VIRUS INFECTION IN THE GOLDEN HAMSTER (*MESOCRICETUS AURATUS*)**Marina Siirin**, Hilda Guzman, Hao Lei, Kanya C. Long, Amelia Travassos da Rosa, Shu-Yuan Xiao, Robert B. Tesh
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746

ISOLATION OF ILHEUS VIRUS FROM A FEBRILE HUMAN IN ECUADOR

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747

SERO- PREVALENCE OF JAPANESE ENCEPHALITIS VIRUS IN PIGS, DUCKS AND HORSES IN NEPAL

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Flaviviridae – West Nile

748

WEST NILE VIRUS SEROPREVALENCE IN A BREEDING POPULATION OF AMERICAN KESTRELS (*FALCO SPARVERIUS*) IN PENNSYLVANIA

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749

COMPARISON OF WEST NILE VIRUS INFECTION IN MICE WITH AND WITHOUT DISEASE

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750

WEST NILE VIRUS IN CANADA: WHAT'S THE LATEST BUZZ?

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751

MOSQUITO FEEDING AFFECTS WEST NILE VIRUS PATHOGENESIS

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752

PROTECTION FROM WEST NILE VIRUS CHALLENGE IN HETEROLOGOUS FLAVIVIRUS IMMUNIZED MICE

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753

SYMPTOM PERSISTENCE IN WEST NILE VIRUS: DATA FROM THE NEW MEXICO OUTBREAK OF 2003

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754

ANALYSIS OF IGM AND IGG ANTIBODY INDEX VALUES TO WEST NILE VIRUS IN A MULTI-VARIANT SAMPLE SET FROM NEW MEXICO WNV SURVIVORS

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755

NEUROPATHOGENESIS OF A WEST NILE VIRUS INFECTION IN MICE

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756

ABSENCE OF WEST NILE VIRUS ANTIBODY IN FLEDGLING CROWS (*CORVUS BRACHYRHYNCHOS*)

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Helminths – Nematodes – Filariasis (Clinical)**757****A PRACTICAL REAL-TIME PCR ASSAY FOR DETECTING PARASITE DNA IN BLOOD FROM *BRUGIA* INFECTED INDIVIDUALS**Ramakrishna Rao¹, Gary J. Weil¹, Laura J. Atkinson¹, Taniawati Supali², Peter Fischer¹¹Washington University School of Medicine, St. Louis, MO, United States, ²University of Indonesia, Jakarta, Indonesia**758****HIGH SURVEY COVERAGE SHOWS REPORTED MDA COVERAGE UNDERESTIMATED IN AMERICAN SAMOA LYMPHATIC FILARIASIS ELIMINATION PROGRAM**Jonathan King¹, Aso Maga², Molisamoa Pa'au², Joseph Roth², Troy Curry³, Dana Crenshaw¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²American Samoa Department of Health, Pago Pago, Samoa, ³American Samoa Department of Commerce, Pago Pago, Samoa**759****IMPACT OF INSECTICIDE TREATED NETS AND LOW DOSE MONTHLY DIETHYL CARBAMAZINE TREATMENT ON *WUCHERERIA BANCROFTI* INFECTION IN TWO ENDEMIC COMMUNITIES IN MUHEZA, TANZANIA**Martha M. Lemnge¹, Bruno P. Mmbando¹, Method D. Segeja¹, Daniel T. Minja¹, Rwehumbiza T. Rwegoshora¹, Julius K. Mhina¹, Alban Machaga¹, Samwel Gesase¹, Anita M. Ronn², Ib C. Bygbjerg²¹National Institute for Medical Research, Tanga, United Republic of Tanzania, ²Centre for Medical Parasitology, Copenhagen University Hospital, University of Copenhagen, Copenhagen, Denmark**Helminths – Nematodes – Filariasis (Epidemiology)****760****QUANTITATIVE AND QUALITATIVE ANALYSES OF WOLBACHIA ENDOSYMBIONTS OF MILD AND SEVERE *O. VOLVULUS* STRAINS**Tarig B. Higazi¹, Anthony Filiano¹, Sabarish Indran¹, Charles R. Katholi¹, Yankum Dadzie², Hans Remme³, Thomas R. Unnasch¹¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Onchocerciasis Control Programme in West Africa,, Ouagadougou, Burkina Faso, ³UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases, WHO, Geneva, Switzerland

(ACMCIP Abstract)

761**MEASURING THE SUCCESS IN CONTROLLING FILARIASIS IN TANZANIA**Charles D. Mackenzie¹, Mwele N. Malecela², Esther Charles³, Conrad Kabali³, Wilfred Lazarus³, Christine Makene³, Upendo Wingira³¹Filarial Diseases Support Unit, Michigan State University, East Lansing, MI, United States, ²LF Program Central Office, National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ³LF Program Central Office, National Institute for Medical Research,, Dar es Salaam, United Republic of Tanzania**762****THE IMPORTANCE OF LYMPHATIC FILARIASIS MDA PROGRAMS IN REDUCING POVERTY**Mwele Malecela¹, Charles D. Mackenzie²¹LF Program Central Office, National Institute for Medical Research,, Dar es Salaam, United Republic of Tanzania, ²Filarial Diseases Support Unit, Michigan State University, East Lansing, MI, United States**763****FIELD APPLICABILITY OF AN ICT RAPID-FORMAT OV16 ANTIBODY TEST TO ASSESS ONCHOCERCIASIS CONTROL EFFORTS IN ENDEMIC REGIONS**Ettie M. Lipner¹, Gary J. Weil², Noumouza Dembele³, S. Suliman³, William Soumbe Alley³, Laurent Toe³, Boayke Boatin³, Thomas B. Nutman¹¹National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³Onchocerciasis Control Program, Ouagadougou, Burkina Faso**764****IMPACT OF TWO ROUNDS OF ALBENDAZOLE AND IVERMECTIN COMBINATION TREATMENT ON *WUCHERERIA BANCROFTI* INFECTION AND TRANSMISSION**

Yaya I. Coulibaly, Abdalaah Diallo, Benoit Dembele, Siaka Konate, Falaye Keita, Massitan Dembele, Madama Bouaré, Guimogo Dolo, Abdoulaye Touré, Seydou Doumbia, Sékou F. Traore

University of Mali School of Medicine, Pharmacy and Dentistry, Bamako, Mali

Helminths — Nematodes — Filariasis (Immunology)**765****THE CYSTATIN-LIKE CYSTEINE PROTEASE INHIBITORS IN NEMATODES HAVE A ROLE DURING OOCYTES MATURATION****Sarwar Hashmi**, Jun Zhang, Yelena Oksov, Sara Lustigman
*Lindsley F Kimball Res. Institute, New York, NY, United States***766****QUANTIFICATION OF NUMBER OF SOMATIC CELLS IN *BRUGIA MALAYI* MICROFILARIAE****Christine R. DeLong**, Yae-Jean Kim, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States
(ACMCIP Abstract)**767****MCPI IS NOT REQUIRED FOR THE RECRUITMENT OF MONOCYTES AND THE IMMUNE ELIMINATION OF *B. PAHANGI* INFECTION****Manish Ramesh**, Thiruchandurai V. Rajan
Uconn Health Center, Farmington, CT, United States
(ACMCIP Abstract)**Helminths — Nematodes — Intestinal and Tissue Helminths****768****MOLECULAR CLONING AND CHARACTERIZATION OF A NOVEL ANTIGEN FROM *TRICHINELLA SPIRALIS*****Xinping Zhu**¹, Jing Yang¹, Yaping Yang¹, Li Ding¹, Song Huang¹, Lei Zhou¹, Boireau Pascal², Bin Zhan³, Peter Hotez³
¹Capital University of Medical Sciences, Beijing, China, ²INRA AFSSA ENVA UPVM, Maisons Alfort, France, ³George Washington University, Washington, DC, United States**769****NEMATICIDAL ACTIVITY OF COMPOUNDS FROM NEW STRAIN OF *BACILLUS MOJAVENSIS*****Ruel Michelin**¹, Frederick Oladeinde¹, Arthur Williams¹, Laafayette Frederick², Anthony Kinyua¹, Roosevelt Shaw¹, Kathleen Lobban³, Wolfgang Leitner⁴, Juarine Stewart¹
¹Morgan State University, Baltimore, MD, United States, ²Howard University, Washington, DC, United States, ³University of the West Indies, Kingston, Jamaica, ⁴NCI/National Institutes of Health, Bethesda, MD, United States**770****INCREASED TH2-ASSOCIATED IMMUNITY IN ASCARIS-INFECTED SWINE TREATED WITH RETINOIC ACID****Harry D. Dawson**, Gloria Solano-Aguilar, Ethiopia Beshah, Eudora Jones, Joseph F. Urban
ARS/USDA, Beltsville, MD, United States
(ACMCIP Abstract)**771****ERYNGIAL, A PLANT COMPOUND WITH MARKED ANTHELMINTIC ACTIVITY *IN VITRO* USING *STRONGYLOIDES STERCORALIS* L3****Wayne M. Forbes**¹, Ralph D. Robinson², Paul B. Reese²
¹Slippery Rock University of Pennsylvania, Slippery Rock, PA, United States, ²University of the West Indies (Mona Campus), Kingston, Jamaica**772****HUMAN CYSTICERCOSIS HOTSPOTS SURROUNDING *TAENIA SOLIUM* TAPEWORM CARRIERS****Andres G. Lescano**¹, Hector H. Garcia¹, Robert H. Gilman², M. Claudia Guezala³, Victor C. Tsang⁴, Silvia Rodriguez⁵, Lawrence H. Moulton², Manuel V. Villaran⁵, Silvia M. Montano⁶, Armando E. Gonzalez³
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*Chulalongkorn University, Bangkok, Thailand***HIV****774****INSUFFICIENCY OF CERTAIN HIV TESTING METHODS USED IN FIELD CONDITIONS****Igor Kazanets**
*International Organization for Migration, Nairobi, Kenya***775****INTESTINAL MICROSPORIDIOSIS IN HUMAN IMMUNO-DEFICIENCY VIRUS-INFECTED PATIENTS FROM NORTHWESTERN VENEZUELA****Leonor Chacin-Bonilla**¹, Patricia A. Panunzio², Francisca Monsalve-Castillo³, Irene Parra-Cepeda², Rodrigo Martinez⁴
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776

THE RISK OF HIV AND HSV-2 ACQUISITION AMONG MEN WHO HAVE SEX ONLY WITH MEN IN URBAN, COASTAL PERU

Kelika A. Konda¹, Jeffrey D. Klausner², Andres G. Lescano³, Segundo Leon⁴, Rosa Castillo³, Nilda Gadea³, Franca R. Jones⁵, Thomas J. Coates¹, Carlos F. Caceres⁴

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777

HIV/AIDS IN MISSISSIPPI AND NIGERIA

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Kinetoplastida – Diagnosis and Treatment

778

CATION PUMPS AND CHANNELS ARE POTENTIAL ANTI-TRYPANOSOMAL DRUG TARGETS

Zuzanna Kucerova, Ikovwaiza Irune, Henry B. Armah, **Jonathan K. Stiles**

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779

SANDWICH ELISA FOR THE DETECTION OF LEISHMANIA PARASITES IN CUTANEOUS LEISHMANIASIS

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780

LARVAL BIOTHERAPY (LB) ALTERNATIVE TREATMENT TO CUTÁNEA LEISHMANIASIS

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781

CHRONIC RODENT LEISHMANIASIS (VL, CL, MCL, DCL): CELL RECEPTORS AND PATHOLOGY

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(ACMCIP Abstract)

Kinetoplastida – Epidemiology

782

VARIATIONS IN PREVALENCE OF INFECTION BY TRYPANOSOMA CRUZI IN SYLVATIC MAMMALS OF RURAL NORTHWESTERN ARGENTINA

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783

EVALUATION OF THREE METHODS TO ISOLATE TRYPANOSOMA CRUZI FROM OPOSSUMS IN SYLVATIC AND PERIDOMESTIC ENVIRONMENTS IN GUATEMALA

Alejandra Estevez, Luis Rios, Carmen L. Contreras, Laura Grajeda, Alejandra Krische, Pedro Peralta, Pamela Pennington, Celia Cordon-Rosales

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Kinetoplastida – Molecular Biology and Immunology

784

T CELL ANTIGENS OF THE PARASITIC PROTOZOAN LEISHMANIA CHAGASI

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(ACMCIP Abstract)

785

THE MAJOR SURFACE PROTEASE (MSP OR GP63) IN AMASTIGOTE LIFE STAGE OF LEISHMANIA CHAGASI

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(ACMCIP Abstract)

786

MOLECULAR TYPING OF *TRYPANOSOMA CRUZI* STRAINS INFECTING *TRIATOMA INFESTANS*, DOMESTIC DOGS AND CATS FROM A RURAL AREA OF NORTHWESTERN ARGENTINA

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(ACMCIP Abstract)

787

EXACERBATED T CELL RESPONSE AND PATHOGENESIS OF CUTANEOUS AND MUCOSAL LEISHMANIASIS

Lucas P. Carvalho, Sara Passos, Olívia Bacellar, Luis Henrique Guimarães, Edgar Marcelino Carvalho, Amélia Ribeiro Jesus

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(ACMCIP Abstract)

788

IDENTIFICATION OF THROMBOXANE A₂ LIKE MOLECULE FROM *TRYPANOSOMA CRUZI*

Shankar Mukherjee, Anthony Ashton, Huan Huang, Murray Wittner, Louis M. Weiss, Herbert B. Tanowitz

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(ACMCIP Abstract)

789

PROTOLLIN-BASED A2 VACCINE PROVIDES PROTECTION AGAINST *LEISHMANIA DONOVANI* IN MICE

Momar Ndao¹, Milli Nath-Chowdhury¹, Veronique Roussy¹, Sonya Cyr², Gina Biscotti¹, David Burt², Greg Matlashewski³, Brian J. Ward¹

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(ACMCIP Abstract)

790

MODULATION OF DENDRITIC CELL MAPK AND NF- κ B EXPRESSION BY *LEISHMANIA AMAZONENSIS* PREVENTS PROPER DENDRITIC CELL MATURATION

Mousumi Ghosh, Paola M. Boggiatto, Fei Jie, David Wilson, Douglas Jones, Christine Petersen

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(ACMCIP Abstract)

Malaria — Biology and Pathogenesis

791

STUDIES OF THE AGE-DEPENDENT PREVALENCE OF THE SWAIN-LANGLEY AND MCCOY BLOOD GROUP POLYMORPHISMS OF COMPLEMENT RECEPTOR 1 IN WESTERN KENYA

Bernard Guyah¹, Vandana Thathy², Alloyce Orago¹, Walter Otieno², José A. Stoute³

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792

INHIBITION OF PGE2 BY ANTIPYRETICS AND EXPERIMENTAL COMPOUNDS PROMOTES OVER-PRODUCTION OF TNF- α IN HEMAZOIN-TREATED HUMAN MONONUCLEAR CELLS

Gregory C. Davenport, Christopher C. Keller, Gordon A. Awandare, **Douglas J. Perkins**

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(ACMCIP Abstract)

793

EXPRESSION OF ERYTHROCYTE COMPLEMENT REGULATORY PROTEINS IN INDIVIDUALS WITH SICKLE CELL TRAIT AND NORMAL HEMOGLOBIN IN A MALARIA ENDEMIC AREA OF WESTERN KENYA

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794

CLASS AND SUBCLASS ANTIBODY ANALYSIS OF CIRCULATING IMMUNE COMPLEXES IN CHILDREN WITH SEVERE *PLASMODIUM FALCIPARUM* MALARIA

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795

TEMPORAL AND SPATIAL PROFILE OF ACTIVATED CASPASE-3 IN EXPERIMENTAL CEREBRAL MALARIA

Peter Lackner¹, Christoph Burger¹, Ronny Beer¹, Kristian Pfaller¹, Volker Heussler², Raimund Helbok¹, Egbert Tannich², Erich Schmutzhard¹

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796

CHONDROITIN SULFATE PROTEOGLYCANS OF RAT PLACENTA AND BINDING OF MALARIA PARASITE INFECTED ERYTHROCYTES**Rajeshwara Achur¹**, Sean T. Agbor-Enoh², D. Channe Gowda¹¹*Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States,*²*Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, Washington, DC, United States*

797

PREPARATION OF THE PHOTOACTIVE DERIVATIVE OF A C4S OLIGOSACCHARIDE, AND ITS USEFULNESS FOR THE IDENTIFICATION OF *PLASMODIUM FALCIPARUM* ADHESIVE PROTEIN(S) THAT MEDIATE THE BINDING OF INFECTED ERYTHROCYTES IN THE PLACENTA**Prakasha Gowda A. S.**, Subbarao V. Madhunapantula, Rajeshwara N. Achur, Veer P. Bhavanandan, D. Channe Gowda*Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States*

798

CHANGES IN GENOTYPE FREQUENCIES AND DOMINANT GENOTYPE COPY NUMBER ARE ASSOCIATED WITH DEVELOPMENT OF SYMPTOMATIC MALARIA IN THE VILLAGE OF MISSIRA, MALI**James M. Colborn¹**, Ousmane A. Koita², Mamadou W. Bagayoko², Donald J. Krogstad¹¹*Tulane University, New Orleans, LA, United States,* ²*University of Bamako, Bamako, Mali*

(ACMCIP Abstract)

799

PLASMODIUM FALCIPARUM* CYTOADHERENCE TO HUMAN PLACENTA: STUDIES ON THE HOST RECEPTORS*Arivalagan Muthusamy**, Prakasha Gowda A. S., Rajeshwara N. Achur, D. Channe Gowda*Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States*

800

SERUM LEVELS OF TNF-ALPHA, IL-10, MIF, IL-4 AND GPI ANTIBODIES IN GHANAIAN CHILDREN WITH SEVERE MALARIA**Ben A. Gyan¹**, Daniel Dodoo¹, Abraham Oduro², Bill Rogers³, Kwadwo Koram¹, Patrick Ansa², Frank Atuguba², Channe Gowda⁴, Bartholomew Akanmori¹, Francis Nkrumah¹¹*Noguchi Memorial Institute for Medical Research, Legon, Ghana,*²*Navrongo Health Research Centre, Navrongo, Ghana,* ³*Naval Medical Research Unit #3, Cairo, Egypt,* ⁴*Pennsylvania State University Medical School, Philadelphia, PA, United States*

(ACMCIP Abstract)

801

A NATURAL MALARIAL HOST-PARASITE RELATIONSHIP HAS ADVANTAGES OVER HOST-ADAPTED MOUSE MODELS OF *FALCIPARUM* MALARIA**April Paulman**, Milton M. McAllister*University of Illinois, Urbana, IL, United States***Malaria – Chemotherapy**

802

EFFICACY AND TOLERANCE OF AMODIAQUINE PLUS SULFADOXINE-PYRIMETHAMINE IN THE TREATMENT OF UNCOMPLICATED *P. FALCIPARUM* MALARIA IN GOUYE KOULY, A SENEGALESE VILLAGE WITH SEASONAL TRANSMISSION**Laurence Marrama¹**, Ronan Jambou¹, Fatoumata Diène Sarr¹, Richard Paul¹, Idrissa Talla², Delphine Aldebert¹, Moussa Dieng Sarr³, Ibrahima Dia¹, Adama Tall¹, Philippe Mauclère¹¹*IPD, Dakar, Senegal,* ²*Ministère de la Santé, Thiès, Senegal,*³*Ministère de la Santé, Dakar, Senegal*

803

MEFLOQUINE INDUCES PROPRIOCEPTIVE MOTOR SYSTEM DAMAGE IN RATS**Kevin R. Cannard**, Richard Bauman, Miriam Cabezas, Diana Caridha, Fu Du, Rosario Gomez-Lobo, Michael Park, Geoffrey Dow*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

804

MEFLOQUINE INDUCES DOSE-RELATED NEUROLOGICAL EFFECTS IN RATS**Geoffrey S. Dow¹**, Richard Bauman¹, Miriam Cabezas¹, Diana Caridha¹, Fu Du², Rosario Gomez-Lobo¹, Michael Park¹, Kirsten Smith¹, Kevin Cannard¹¹*Walter Reed Army Institute of Research, Silver Spring, MD, United States,* ²*FD Neurotechnologies, Baltimore, MD, United States*

805

EVALUATION OF DIHYDROARTEMISININ-PIPERAQUINE DRUG COMBINATIONS *IN VITRO*Christopher D. Lowe, **Lucia Gerena**, Dennis E. Kyle*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

806

COMMUNITY MANAGEMENT OF UNCOMPLICATED MALARIA USING RAPID DIAGNOSTIC TEST AND ARTEMISIN COMBINATIONS THERAPIES IN SÉNÉGAL, (WEST AFRICA)**Jean Louis A. Ndiaye**, Paulette S. Ndiaye, Babacar Faye, Daouda Ndiaye, Yemou Dieng, Oumar Faye, Oumar Ndir, Oumar Gaye*Service de Parasitologie, Dakar, Senegal*

807

ASSESSMENT OF HEMOGLOBIN DEGRADATION BY MALARIA PARASITES USING MALDI-TOF MASS SPECTROMETRY

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Malaria – Drug Development

808

IDENTIFICATION OF THIOPHENE SULFONAMIDES AS SPECIFIC INHIBITORS OF PLASMODIAL CYCLIN DEPENDENT PROTEIN KINASES

Richard A. Denuff¹, Edison A. Cortes¹, April K. Kathcart¹, Lucia Gerena¹, Donald P. Huddler¹, Apurba K. Bhattacharjee¹, Jeanne A. Geyer¹, Sean T. Prigge², Norman C. Waters¹

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809

UNIQUE FEATURES OF ACRIDONE DERIVATIVES AS QUINOLINE-RESISTANCE REVERSAL AGENTS AGAINST PLASMODIUM FALCIPARUM

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810

ANTIMALARIAL 4-(1H)-PYRIDONES DEPOLARIZE THE MITOCHONDRIAL MEMBRANE AND INHIBIT OXYGEN CONSUMPTION IN PLASMODIUM YOELII

Alfonso Mendoza¹, Maria Gomez-Lorenzo¹, Maria Martinez-Hoyos¹, Angeles Talavante¹, Federico Gomez de las Heras¹, David Pompliano², Akhil B. Vaidya³, Jose F. Garcia-Bustos¹

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811

PRECLINICAL DRUG METABOLISM AND PHARMACOKINETIC EVALUATION OF GW844520, A NOVEL ANTI-MALARIAL MITOCHONDRIAL ELECTRON TRANSPORT INHIBITOR

Hong Xiang¹, Jeanelle McSurdy-Freed¹, Ganesamoorthy Subbanagounder¹, Erin Hugger¹, Ramesh Bambal¹, Chao Han¹, Santiago Ferrer², Domingo Gargallo², Charles B. Davis¹

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812

PRE-CLINICAL DEVELOPMENT OF JPC-2056-I, A THIRD GENERATION ANTIFOLATE

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813

ANTIMALARIAL ACTIVITY OF 2,4-DIMETHOXY-4'-BUTOXYCHALCONE AND ITS METABOLITES

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814

DEVELOPMENTS REGARDING THE MANZAMINES, A PROMISING NEW CLASS OF ANTIMALARIAL AGENT

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815

THE PFCRT PROTEIN HAS A DIRECT ROLE IN THE ACTIVITY OF QUINOLINE-RESISTANCE REVERSAL AGENTS AGAINST PLASMODIUM FALCIPARUM

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816

DETERMINING DRUG PARTNERS FOR THE NOVEL ANTIMALARIAL COMPOUND, DB75

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817

SYNTHESIS, BIOLOGICAL ACTIVITY, AND X-RAY CRYSTAL STRUCTURAL ANALYSIS OF DIARYL ETHER INHIBITORS OF MALARIAL ENOYL ACYL CARRIER PROTEIN REDUCTASE

Joel S. Freundlich¹, Hong-Ming Shieh¹, Dimitri Sarantakis¹, John Anderson¹, Isabelle K. Nevchas¹, Jacek Terpinski¹, Laura R. Jacobus¹, Guy A. Schiehsler¹, Arba L. Ager², Min Yu³, Luchezar Karagyozyov³, Edinson Lucumi⁴, Mack Kuo⁴, William R. Jacobs⁵, David A. Fidock³, James C. Sacchettini⁴, David P. Jacobus¹

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818

DEVELOPMENT OF STEREOSELECTIVE LARIAM ANALOGS WOULD HAVE NO ADVANTAGE OVER LARIAM AGAINST EMERGING RESISTANCE IN WEST AFRICA

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819

BIOTRANSFORMATION OF PRIMAQUINE AND NPC1161 TO CARBOXYMETABOLITES: ROLE OF SEMICARBAZIDE SENSITIVE AMINE OXIDASE

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820

1,3-DIARYL UREAS AND SURROGATES AS INHIBITORS OF PLASMODIUM FALCIPARUM ENOYL ACP REDUCTASE AND POTENTIAL ANTIMALARIAL THERAPEUTICS

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821

INHIBITION OF HEMOZOIN DEPOSITION *IN VITRO* AS A SCREEN FOR THE ANTIPARASITE ACTIVITY OF INVESTIGATIONAL AMINOQUINOLINES

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822

ANTIMALARIAL ACTIVITY OF 4(1H)-QUINOLONES

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823

'CAPTURE' AND 'RELEASE' SOLID PHASE SYNTHESIS OF RADIOLABELED AMINOQUINOLINES TERMINAL NUCLEOPHILIC SUBSTITUTION WITH RADIOLABELED SECONDARY AMINES

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824

INHIBITION OF FATTY ACID BIOSYNTHESIS IN PLASMODIUM FALCIPARUM

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825

MALARIA ATTACK RATE DETERMINATION AND ANTI-MALARIAL PROPHYLAXIS PHASE II-III CLINICAL TRIAL FEASIBILITY AT AN INSTITUTE OF HIGHER EDUCATION IN WESTERN KENYA

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826

NOVEL POTENT ANTIMALARIAL AGENTS: *IN VITRO* AND *IN VIVO* STUDIES

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827

A PHARMACOKINETIC/PHARMACODYNAMIC SCREENING MODEL FOR LEAD ANTIMALARIALS AND THEIR ACTIVE METABOLITES IN RHESUS MONKEYS

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828

ANTIMALARIAL 4-(1H)-PYRIDONES SELECTIVELY INHIBIT UBIQUINOL:CYTOCHROME C REDUCTASE (RESPIRATORY COMPLEX III) FROM PLASMODIA

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829

CYTOCHROME B IS THE PRIMARY TARGET OF ANTIMALARIAL 4-(1H)-PYRIDONES

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Malaria – Drug Resistance

830

EFFICACY OF MEFLUQUINE TREATMENT FOR UNCOMPLICATED FALCIPARUM MALARIA IN YOUNG CHILDREN OF NORTHERN GHANA

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831

MOLECULAR SURVEILLANCE FOR MALARIA DRUG RESISTANCE IN IMPORTED *PLASMODIUM FALCIPARUM* ISOLATES: SENTINEL DATA FROM TROPNETEUROP

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832

ORPHENADRINE AS A CHEMOSENSITIZER AGAINST QUINOLINE-RESISTANT MALARIA

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(ACMCIP Abstract)

833

SURVIVAL AND DEATH IN ERYTHROCYTIC STAGES OF *PLASMODIUM FALCIPARUM* TREATED WITH ANTI-MITOCHONDRIAL DRUGS

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834

PLASMODIUM BERGHEI: PARTIAL CHARACTERIZATION OF THE GAMMA-GLUTAMYL-CYSTEINE SYNTHETASE (GGCS) MRNA IN DRUG SENSITIVE AND RESISTANT LINES

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835

MODULATION OF CHLOROQUINE SENSITIVITY IN *P. FALCIPARUM* BY OVER-EXPRESSION OF A *P.VIVAX* ORTHOLOG OF THE CHLOROQUINE RESISTANCE TRANSPORTER GENE, *PFCRT*

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836

POTENTIAL IMPACT OF INTERMITTENT PREVENTIVE TREATMENT FOR INFANTS ON THE SPREAD OF DRUG RESISTANT MALARIA

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837

DISCRIMINATING LIFE CYCLE STAGES OF *PLASMODIUM FALCIPARUM* BY FLOW CYTOMETRY FOR *IN VITRO* EVALUATION OF ANTI-MALARIAL DRUG SUSCEPTIBILITY

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838

SELECTION OF ATOVAQUONE-PROGUANIL RESISTANCE IN *PLASMODIUM FALCIPARUM*

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839

A MULTIPLEX PCR-LIGASE DETECTION REACTION FOR SIMULTANEOUS GENOTYPE IDENTIFICATION OF MULTIPLE POLYMORPHIC POINTS ON *PLASMODIUM FALCIPARUM* GENOME

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Malaria – Epidemiology

840

CHANGING PATTERNS OF THE REEMERGING *PLASMODIUM VIVAX* MALARIA IN THE REPUBLIC OF KOREA

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841

MALARIA PREVALENCE IN FEBRILE PATIENTS IN HAITI

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842

DYNAMICS OF *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN-1 SEQUENCE VARIATION OVER THREE YEARS AT A MALARIA VACCINE TESTING SITE IN BANDIAGARA, MALI

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843

EVALUATION OF WHO/RBM RECOMMENDATION TO USE ANEMIA AS AN INDICATOR OF MALARIA CONTROL IN MALAWI

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844

MULTI-LEVEL MODELING OF FACTORS ASSOCIATED WITH HIGHLAND MALARIA RISK IN TWO KENYAN TOWNS EXHIBITING DIFFERENT PATTERNS OF INCIDENCE

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845

INTERPRETING HOUSEHOLD SURVEY DATA INTENDED TO MEASURE INSECTICIDE-TREATED BEDNET COVERAGE: RESULTS FROM TWO SURVEYS IN ERITREA

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846

MULTIPLICITY OF *PLASMODIUM FALCIPARUM* INFECTION AND MALARIA INCIDENCE IN AN EPIDEMIC-PRONE AREA OF THE WESTERN KENYAN HIGHLANDS

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(ACMCIP Abstract)

847

ASSESSING MALARIA RISKS IN THAILAND USING METEOROLOGICAL AND ENVIRONMENTAL PARAMETERS

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848

EPIDEMIOLOGY OF *PLASMODIUM* BLOOD-STAGE INFECTIONS IN THE WOSERA, EAST SEPIK PROVINCE, PAPUA NEW GUINEA

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849

DISTRIBUTION OF THE DUFFY-NEGATIVE ALLELE IN THE WOSERA, EAST SEPIK PROVINCE, PAPUA NEW GUINEA

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850

A LONGITUDINAL COHORT STUDY OF THE EPIDEMIOLOGY OF PEDIATRIC MALARIA IN KOMBWEA DIVISION, WESTERN KENYA: UPDATE

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851

RAPID ASSESSMENT OF MALARIA BURDEN IN UNSTABLE MALARIA TRANSMISSION OF MALI

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852

CELLULAR AND HUMORAL IMMUNE RESPONSES TO *P. VIVAX* MEROZOITE SURFACE PROTEIN 9 (PVMSP9) IN NATURALLY EXPOSED INDIVIDUALS FROM RONDÔNIA STATE-BRAZIL

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(ACMCIP Abstract)

853

COMMUNITY BASED STUDY OF INTERMITTENT PREVENTIVE THERAPY WITH SULFADOXINE-PYRIMETHAMINE AND CHLOROQUINE IN PREVENTING MALARIA DURING PREGNANCY IN MALI

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854

SULFADOXINE-PYRIMETHAMINE INTERMITTENT PREVENTIVE TREATMENT: EFFECTIVENESS AGAINST MALARIA AND ANEMIA IN PREGNANT MALAWIAN WOMEN, IN 2000-2004

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855

IDENTIFYING THE CAUSAL CHANNELS OF THE MALARIA GAP: POPULATION MOBILITY AND ITS IMPACT ON GDP IN THE FORMER FEDERATED MALAY STATES

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856

ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS AT THE *PLASMODIUM VIVAX* APICAL MEMBRANE ANTIGEN 1 (PVAMA1) LOCUS AMONG SRI LANKAN ISOLATES

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857

POPULATION GENETIC STRUCTURE OF *PLASMODIUM FALCIPARUM* IN WESTERN KENYA HIGHLANDS

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858

INCIDENCE OF MALARIAL INFECTION AND DISEASE AMONG CHILDREN WITH HEMOGLOBIN S IN THE MALARIA-ENDEMIC VILLAGE OF MISSIRA IN KOLOKANI, MALI

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859

EFFECT OF SEASONALITY ON THE PREVALENCE OF THE FOUR MALARIA PARASITE SPECIES IN NORTHERN MALI

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860

NATURALLY ACQUIRED ANTIBODIES TO SEVEN VARIANTS OF THE RECOMBINANT *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 119-KILODALTON DOMAIN PROVIDE PROTECTION AGAINST ASYMPTOMATIC PARASITEMIA

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(ACMCIP Abstract)

Malaria – Immunology

861

THE ROLE OF EFFECTOR CD8+ T CELLS IN MONKEYS IMMUNIZED WITH IRRADIATED MALARIA SPOOROZOITES

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(ACMCIP Abstract)

862

PLASMODIUM YOELII INFECTION DEPENDENT IMMUNOSUPPRESSION IN C57BL/6 AND DUFFY KNOCKOUT MICE

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863

REPEAT CROSS-SECTIONAL INTERFERON-GAMMA RESPONSES TO OVERLAPPING PEPTIDES OF THE 33-KDA REGION OF MEROZOITE SURFACE PROTEIN-1 (MSP-1) OF PLASMODIUM FALCIPARUM IN WESTERN KENYA

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864

ANTIBODIES TO CSP AND MSP-1(42KDA) CORRELATE WITH PROTECTION FROM PLASMODIUM FALCIPARUM INFECTION IN BOTH ADULTS AND CHILDREN WHILE ANTIBODIES TO MSP-1(19KDA) ARE PROTECTIVE ONLY FOR CHILDREN

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865

FC γ RECEPTOR IIA POLYMORPHISM AND SUSCEPTIBILITY TO MALARIA IN SYMPATRIC ETHNIC TRIBES FULANI AND DOGON LIVING IN MALI, WEST AFRICA

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866

IMPACT OF PRENATAL EXPOSURE TO MALARIA ANTIGENS ON LEVELS OF MSP-1₉ INVASION-INHIBITORY ANTIBODIES DURING INFANCY

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867

INDUCTION OF CD8+ T CELL RESPONSES FOLLOWING IMMUNIZATION WITH PLASMODIUM YOELII SPOOROZOITES

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868

A ROLE FOR NATURALLY OCCURRING ANTI-GALACTOSYL ANTIBODY (ANTI-GAL) IN PLASMODIUM FALCIPARUM INFECTION

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(ACMCIP Abstract)

Malaria – Molecular Biology

869

FUNCTIONAL ANALYSIS OF PLASMODIUM FALCIPARUM MAEBL

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(ACMCIP Abstract)

870

OPTIMIZING CONDITIONS FOR PIGGYBAC MEDIATED INSERTIONAL MUTAGENESIS OF PLASMODIUM FALCIPARUM

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871

FIRST IDENTIFICATION AND CHARACTERIZATION OF AN ABCG GENE IN PLASMODIUM BERGHEI

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872

FUNCTIONAL SIMILARITY BETWEEN THE SUBTILISIN-LIKE PROTEASES OF *BABESIA DIVERGENS* AND *PLASMODIUM FALCIPARUM* DURING MEROZOITE INVASION OF HUMAN RED BLOOD CELLS

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873

EFFECT OF AT AND GC CONTENT AND TEMPLATE LENGTH ON ESTIMATION OF TEMPLATE COPY NUMBER USING REAL TIME PCR

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874

IDENTIFICATION OF PROTEINS INTERACTING WITH THE UNUSUAL SUBUNIT A OF THE V-ATPASE IN A MALARIA PARASITE

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(ACMCIP Abstract)

875

MANNANOSE-BINDING LECTIN (MBL): THE FREQUENCY OF GENETIC POLYMORPHISMS, SERUM LEVELS, AND PREGNANCY OUTCOME IN CAMEROONIAN WOMEN

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(ACMCIP Abstract)

876

AN APPARENT CONTRADICTION: *PLASMODIUM FALCIPARUM* MAY BE AUXOTROPHIC FOR LIPOATE DESPITE THE PRESENCE OF A LIPOATE BIOSYNTHESIS PATHWAY

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(ACMCIP Abstract)

877

PARTIAL CHARACTERIZATION OF THE *PLASMODIUM YOELII* BREAST CANCER RESISTANCE PROTEIN GENE HOMOLOGUE (*PYBCRP*) IN DRUG SENSITIVE AND RESISTANT LINES

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878

GENETIC DIVERSITY OF *PLASMODIUM VIVAX* IN MALARIA HIGH RISK AREAS OF GUATEMALA, CENTRAL AMERICA

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Malaria – Vaccines

879

NATURAL BOOSTING OF ANTIBODIES TO ANTIGEN PB48/45 FROM *PLASMODIUM BERGHEI* IN MICE PRIMED WITH A DNA VACCINE ENCODING THE ANTIGEN

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880

USE OF 6-COLOR FLOW CYTOMETRY TO MEASURE IMMUNE RESPONSE IN RHESUS MACAQUES IMMUNIZED WITH MALARIA VACCINE CANDIDATES

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(ACMCIP Abstract)

881

EVALUATION OF IMMUNOGENICITY OF ADENOVIRUS-PFC5 MALARIA VACCINE CANDIDATES IN MICE

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(ACMCIP Abstract)

882

PROTECTION OF CHINESE RHESUS MONKEYS AGAINST PLASMODIUM KNOWLESI SPOOROZOITE CHALLENGE BY HETEROLOGOUS PRIME/BOOST VACCINATION

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883

INTERFERON-GAMMA ELISPOT RESPONSES TO PFAMA-1/E, A RECOMBINANT PROTEIN BLOOD-STAGE P. FALCIPARUM VACCINE CANDIDATE, IN RHESUS MACAQUES

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(ACMCIP Abstract)

884

RAPID CONTROL OF BLOODSTAGE PARASITEMIA IN M. FASCICULARIS FOLLOWING CHALLENGE WITH PLASMODIUM KNOWLESI SPOOROZOITES

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885

SCREENING OF NOVEL MALARIA TRANSMISSION-BLOCKING VACCINE CANDIDATES USING WHEAT GERM CELL-FREE PROTEIN SYNTHESIS SYSTEM

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886

VAXFECTIN™ ENHANCES IMMUNIZATION WITH VERY LOW DOSES OF PLASMID DNA IN A MOUSE MALARIA VACCINE MODEL

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887

ANTIBODIES RAISED AGAINST P. FALCIPARUM MSP1-42 EXPRESSED FROM A FULLY CODON-HARMONIZED GENE ARE SIGNIFICANTLY MORE GROWTH INHIBITORY THAN THOSE RAISED AGAINST THE SAME ANTIGEN EXPRESSED FROM A PARTIALLY CODON-HARMONIZED GENE

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888

STUDIES WITH THE RODENT MALARIA PLASMODIUM YOELII SUPPORT DEVELOPMENT OF A MULTI-COMPONENT BLOOD STAGE MALARIA VACCINE

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(ACMCIP Abstract)

889

THE CASE FOR LIVE ATTENUATED PROTOZOAL VACCINES

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890

INDUCTION OF PROTECTIVE IMMUNITY AGAINST LETHAL PLASMODIUM BERGHEI AND P. YOELII MALARIA USING THE 110 KDA RHOP-3 RHOPTRY PROTEIN

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(ACMCIP Abstract)

Malaria – Vector Biology and Malaria Transmission**891****EFFICIENCY OF EARLY SPOROGONY FOR RODENT PLASMODIA DEVELOPING WITHIN A LABORATORY STRAIN OF *ANOPHELES STEPHENSI* MOSQUITOES**

Shreekanta S. Poudel, Abby Byzewski, Jeffrey A. Bell, Jay Schroeder, Gabriel Garman, Jefferson A. Vaughan
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892**ITN OWNERSHIP VS. USE: WHAT MAKES A DIFFERENCE?**

Celeste Marin, Carol Baume, Roshelle Payes, Sheila Somashekhar
Academy for Educational Development, Washington, DC, United States

893**USE OF INSECTICIDE-TREATED NETS FOR MALARIA PREVENTION: PROFILES OF NET USERS AND NON-USERS IN GHANA, NIGERIA, SENEGAL AND ZAMBIA**

Celeste Marin, Carol Baume, Sheila Somashekhar, Roshelle Payes
Academy for Educational Development, Washington, DC, United States

894**NANOS (NOS) GENE OF THE VECTOR MOSQUITO, *ANOPHELES STEPHENSI*: A POTENTIAL USE FOR A DEVELOPMENTALLY REGULATED GENE IN A GENE DRIVE SYSTEM**

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Mosquitoes – Biochemistry and Molecular Biology**895****IDENTIFYING GENES CONFERRING METABOLIC INSECTICIDE RESISTANCE IN FIELD POPULATIONS OF *ANOPHELES GAMBIAE* USING THE “DETOX CHIP”**

Pie Mueller¹, Nadine Randle¹, Edward Walker², Martin Donnelly¹, Hilary Ranson¹
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896**MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF *Aedes Aegypti* PROPHENOLOXIDASES**

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897***ANOPHELES* FIBRINOGEN IMMUNE LECTINS: A LARGE CONSERVED GENE FAMILY FIGHTING AGAINST *PLASMODIUM***

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898**MOSQUITO-MALARIA INTERACTIONS IN THE HEMOCOEL**

Julián F. Hillyer, Jiannong Xu, Frederick Oduol, Ken Vernick
University of Minnesota, St Paul, MN, United States

899**WHOLE GENOME TRANSCRIPTOME ANALYSIS OF *ANOPHELES GAMBIAE* IN RESPONSE TO BLOODMEAL AND MALARIA INFECTION**

Jun Li, Jiannong Xu, Michelle M. Riehle, Ken Vernick
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900**UNIQUE ORGANIZATION AND UNEXPECTED EXPRESSION PATTERNS OF *ANOPHELES GAMBIAE* VITELLOGENIN GENES**

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901**GENERATING MOSQUITOCIDAL IMMUNITY TO PREVENT DISEASE TRANSMISSION**

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902**BALANCING INSULIN SIGNALING IN THE MOSQUITO *Aedes Aegypti*: PTEN AND PI 3-KINASE**

Michael Riehle, Jessica Brown
University of Arizona, Tucson, AZ, United States

Mosquitoes – Molecular Genetics**903****HITCHHIKING MAPPING OF PUTATIVE INSECTICIDE RESISTANCE GENES IN *ANOPHELES GAMBIAE***

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904

RECOMBINATION MAP OF THE X-CHROMOSOME PERICENTROMERIC REGION IN *ANOPHELES GAMBIAE* M MOLECULAR FORM BY MICROSATELLITE ANALYSIS

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905

BELLY, A POTENTIALLY ACTIVE LTR RETROTRANSPOSON IN THE AFRICAN MALARIA MOSQUITO, *ANOPHELES GAMBIAE*

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(ACMCIP Abstract)

906

INTRAGENOMIC ITS2 VARIATION AND ITS IMPACT ON PCR IDENTIFICATION OF AN *ANOPHELES* MALARIA VECTOR GROUP

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907

CANDIDATE GUSTATORY RECEPTOR GENES IN *AEDES AEGYPTI*

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908

POPULATION STRUCTURE OF *AEDES AEGYPTI* IN CENTRAL AMERICA AND THE CARIBBEAN

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909

CONTRASTING MOLECULAR PHYLOGENY OF ENZOOTIC VENEZUELAN EQUINE ENCEPHALITIS VECTORS USING MITOCHONDRIAL AND RIBOSOMAL DNA

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910

MOLECULAR IDENTIFICATION OF THE GENETIC VARIANTS OF *AEDES AEGYPTI* FROM DIFFERENT ENDEMIC AREAS OF PERU

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Mosquitoes — Vector Biology

911

SPATIAL DISTRIBUTION AND PRODUCTION OF ANOPHELINE LARVAL HABITATS IN WESTERN KENYA HIGHLANDS

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912

SWARMING BEHAVIOUR IN THE MOLECULAR M FORM OF *ANOPHELES GAMBIAE* IN FIELD CONDITIONS FROM BURKINA FASO

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913

CONSECUTIVE TWO-YEAR SURVEY OF TRANSMISSION-BLOCKING ACTIVITY IN NATURAL GAMETOCYTE-CARRIERS LIVING IN A MALARIA ENDEMIC VILLAGE OF MALI, WEST AFRICA

Abdoulaye M. Toure¹, Oumou Niare¹, Belco Poudiougou¹, Boubacar Coulibaly¹, Amed Ouattara¹, Adama Sacko¹, Ibrahim S. Diawara¹, Alpha S. Yaro¹, Mouctar Diallo¹, Sekou Toure¹, Sekou F. Traore¹, Kenneth D. Vernick², Ogobara K. Doumbo¹
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914

DOES CONTAINER SIZE INFLUENCE OVIPOSITION CHOICES OF THE DENGUE VECTOR *AE. AEGYPTI* ?

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915

ELEVATED KDR FREQUENCY IN ANOPHELES GAMBIAE IN WESTERN KENYA**I. Moraa**¹, L. Kamau¹, N. Bayoh², J. Gimnig³, E. Kokwaro⁴, J. Vulule², W. Hawley³, E. Walker⁵¹Kenya Medical Research Institute, Nairobi, Kenya, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Kenyatta University, Nairobi, Kenya, ⁵Michigan State University, East Lansing, MI, United States

916

IS VECTOR BODY SIZE THE KEY TO REDUCED MALARIA IN THE IRRIGATED REGION OF NIONO, MALI?**Nicholas C. Manoukis**¹, Mahamoudou B. Touré², Ibrahim Sissoko², Seydou Doumbia², Sekou F. Traoré², Charles E. Taylor¹¹University of California, Los Angeles, Los Angeles, CA, United States, ²Malaria Research and Training Center, Université du Mali, Bamako, Mali

917

MOLECULAR PROFILING OF THE BACTERIAL FLORA FROM ANOPHELES GAMBIAE COMPLEX LARVAL HABITATS IN BURKINA FASO**Henri N. Bassole**¹, Carlo Costantini², Antoine Sanou¹, Samuel Sereme¹, N'Fale Sagnon¹¹CNRFP, Ouagadougou, Burkina Faso, ²IRD, Ouagadougou, Burkina Faso

918

FEEDING AND RESTING BEHAVIOR OF ANOPHELES FUNESTUS CHROMOSOMAL FORMS FROM BURKINA FASO**Wamdaogo M. Guelbeogo**¹, Olga Grushko², Nora J. Beansky², N'Fale Sagnon¹, Carlo Costantini³¹Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ²Dept. Biological Sciences, University of Notre Dame, South Bend, IN, United States, ³Institut de Recherche pour le Développement (IRD) Research Unit 016 "Population biology and control of insect disease vectors", Centre IRD de Ouagadougou, Ouagadougou, Burkina Faso

919

CHROMOSOMAL DIFFERENTIATION OF ANOPHELES FUNESTUS FROM LUANDA AND HUAMBO PROVINCES, WESTERN AND CENTRAL ANGOLADaniela Boccolini¹, Gian Carlo Carrara², Ibrahima Dia³, Filomeno Fortes⁴, Pedro Jorge Cani⁴, **Carlo Costantini**⁵¹Department of Infectious, Parasitic, and Immuno-mediated Diseases, Istituto Superiore di Sanità, Rome, Italy, ²Parasitology Unit, Dept. Public Health, University of Rome "La Sapienza", Rome, Italy, ³Institut Pasteur, Dakar, Senegal, ⁴Ministry of Health National Program of Malaria Control, Luanda, Angola, ⁵Institut de Recherche pour le Développement, Research Unit #016 "Population biology and control of insect disease vectors", Ouagadougou, Burkina Faso

920

TIME-COURSE STUDY OF DENGUE 2 VIRAL REPLICATION AND RNA SEQUENCE VARIATION WITHIN AEDES AEGYPTI**huo-shu H. Houng**, Derek Smith, Bangti Zhao, Adeline Chan, Sarah Luciano, Megan Dowler, Nancy McLean-Cooper, Russell Coleman, Wellington Sun, Robert Putnak
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(ACMCIP Abstract)

921

SPATIAL AND TEMPORAL PATTERNS OF CHROMOSOMAL POLYMORPHISM IN ANOPHELES GAMBIAE MOLECULAR FORMS FROM BURKINA FASOMoussa W. Guelbeogo¹, Ismael H. Bassole¹, Antoine Sanou¹, N'Falé Sagnon¹, **Carlo Costantini**²¹Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, ²Institut de Recherche pour le Développement, Research Unit #016 "Population biology and control of insect disease vectors", Ouagadougou, Burkina Faso

922

SPATIAL ANALYSIS OF THE ANOPHELES GAMBIAE MIDGUT TRANSCRIPTOME

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923

LANDSCAPE STRUCTURE OF LARVAL ANOPHELES GAMBIAE HABITATS IN RURAL, LOWLAND, WESTERN KENYA**F. Mutuku**¹, N. Bayoh², J. Gimnig³, J. Mueke¹, J. Vulule², A. Hightower³, W. Hawley³, E. Walker⁴¹Kenyatta University, Nairobi, Kenya, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Michigan State University, East Lansing, MI, United States

924

WEST NILE VIRUS TRANSMISSION IN EAST-CENTRAL ILLINOIS: SPATIAL AND TEMPORAL INFECTION RATES IN VECTORS AND SEROLOGY OF WILD BIRDS**Richard L. Lampman**¹, Emily Wheeler², Mike Ward¹, Nina Krasavin¹, Ken Kunkel³, Brendan Heffron¹, Robert J. Novak¹¹Illinois Natural History Survey, Champaign, IL, United States, ²University of Illinois, Champaign, IL, United States, ³Illinois State Water Survey, Champaign, IL, United States

925

DRY SEASON PERSISTENCE OF ANOPHELES GAMBIAE IN WESTERN KENYA: BREEDING REFUGIA IN STREAMBED POOLS**N. Bayoh**¹, E. Lehman², M. Ombok¹, M. Wilson², J. Vulule¹, J. Gimnig³, E. Walker⁴¹Kenya Medical Research Institute, Kisumu, Kenya, ²University of Michigan, Ann Arbor, MI, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Michigan State University, East Lansing, MI, United States

926

FINE-SCALE SPATIAL AND TEMPORAL POPULATION GENETICS OF AEDES JAPONICUS (DIPTERA: CULICIDAE), A US NEWCOMER**Dina M. Fonseca**¹, Andrea K. Widdel¹, Sven-Erik Spilchiger², Michael Hutchinson³, Laura D. Kramer⁴¹Academy of Natural Sciences, Philadelphia, PA, United States, ²Bureau of Forestry, PA-DCNR, Middletown, PA, United States, ³Division of Vector Management, PA-DEP, Harrisburg, PA, United States, ⁴Wadsworth Center, New York State Department Health, Albany, NY, United States

927

GLOBAL GENE EXPRESSION ANALYSIS OF ANOPHELES GAMBIAE TOWARDS AN ASSESSMENT OF TRANSCRIPTOMIC DIVERGENCE BETWEEN LAB AND FIELD MOSQUITOES AT THEIR IMMUNE SYSTEM AND OTHERS**Ruth A. Aguilar**¹, Colince K. Kamdem², Frederic S. Simard², George D. Dimopoulos¹¹Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ²Laboratoire IRD de Recherche sur le Paludisme, Organisation de Coordination pour la lutte Contre les Endemies en Afrique Centrale, Yaounde, Cameroon., Yaounde, Cameroon

928

SAMPLING RESTING ANOPHELES GAMBIAE WITH CLAY POTS**M. Odiero**¹, N. Bayoh², L. Irungu¹, J. Gimnig³, J. Vulule², W. Hawley³, E. Walker⁴¹University of Nairobi, Nairobi, Kenya, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Michigan State University, East Lansing, MI, United States

929

O'NYONG-NYONG INFECTION IN ANOPHELES GAMBIAE: INTERACTIONS BETWEEN THE SG650 INFECTIOUS CLONE AND AN. GAMBIAE G3 MOSQUITOES**Rodman D. Tompkins**, Ken E. Olson, Brian D. Foy
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930

PRELIMINARY EVALUATIONS OF DENGUE VECTOR CONTROL METHODOLOGIES IN IQUITOS, PERU**Jeff Stancil**¹, Amy Morrison², Adeline Chan³, Moises Sihuinchia⁴, Helvio Astete², Roberto Fernandez¹, Victor Lopez¹¹Naval Medical Research Center, Detachment, APO, AE, United States, ²University of California, Davis, CA, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Direccion de Salud, Laboratorio Referencial, Iquitos, Peru

931

CATALASE ALLELES AND FECUNDITY IN ANOPHELES GAMBIAE**Randall J. DeJong**¹, Lisa M. Miller², Carolina Barillas-Mury¹¹National Institutes of Health, Rockville, MD, United States, ²Colorado State University, Ft. Collins, CO, United States

932

GENETIC RELATEDNESS AND VARIATION IN DENGUE-2 VIRUS VECTOR COMPETENCE AMONG DOMESTIC AND SYLVAN STRAINS OF AEDES AEGYPTI FROM SENEGAL**Christopher F. Bosio**¹, Massamba Sylla², William C. Black¹, Barry J. Beaty¹¹Colorado State University, Fort Collins, CO, United States, ²Institut Recherche pour le Developpement, Dakar, Senegal

933

HIGH PREVALENCE OF TRYPANOSOMES IN IMPORTANT WEST NILE VIRUS VECTORSMeg Van Dyken, Laura Danielle Wagner, Bethany Bolling, Chester G. Moore, Barry J. Beaty, **Brian D. Foy**

Colorado State University, Fort Collins, CO, United States

Mosquitoes – Vector Biology – Epidemiology

934

THE EFFECTS OF DOSE AND EXTRINSIC INCUBATION PERIOD ON THE INFECTION OF DIFFERENT STRAINS OF CULEX TARSALIS COQUILLET WITH WESTERN EQUINE ENCEPHALOMYELITIS VIRUS**Marco V. Neira**¹, Farida Mahmood², William K. Reisen², William S. Romoser¹¹Ohio University, Athens, OH, United States, ²University of California, Davis, CA, United States

935

SPATIAL PREDICTION OF WEST NILE VIRUS VECTOR ABUNDANCE IN CONNECTICUT, UNITED STATES**Maria Diuk-Wasser**¹, Heidi Brown¹, Theodore Andreadis², Durland Fish¹¹Yale University, New Haven, CT, United States, ²Connecticut Agricultural Experiment Station, New Haven, CT, United States

936

SPATIO-TEMPORAL DISTRIBUTION OF INSECTICIDE RESISTANCE IN *ANOPHELES CULICIFACIES* AND *ANOPHELES SUBPICTUS* IN SRI LANKA

Louise A. Kelly-Hope¹, A.M.G.M Yapabandara², M.B Wickramasinghe², M.D.B Perera², S.H.P.P Karunaratne³, W.P Fernando², R.R Abeyasinghe², R.R.M.L.R Siyambalagoda², P.R.J Herath², G.N.L Galappaththy², Janet Hemingway¹

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937

MALARIA EPIDEMIC IN WEST KENYA HIGHLANDS: THE ROLE OF TOPOGRAPHY

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938

WEST NILE VIRUS VECTOR ECOLOGY ACROSS AN URBANIZATION GRADIENT

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939

A NOVEL STICKY TRAP FOR COLLECTING CONTAINER-BREEDING MOSQUITOES

Luca Facchinelli¹, Laura Valerio¹, Marco Pombi¹, Carlo Costantini², Paul Reiter³, Alessandra della Torre¹

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940

IRRIGATION AND MALARIA TRANSMISSION RISK: THE EXPERIENCE FROM NORTHERN GHANA

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941

ECOSYSTEMS APPROACH TO EVALUATE ECOLOGICAL, SOCIOECONOMIC, AND GROUP DYNAMICS AFFECTING DENGUE IN TWO COLOMBIAN TOWNS

Gabriel Carrasquilla¹, Roberto Suarez², Juliana Quintero¹, Catalina Gonzalez², Juan M. Viatela², David A. Hurtado², Victor A. Olano³, Jairo Garcia⁴

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942

DEVELOPMENT AND CHARACTERIZATION OF A DOUBLE SUBGENOMIC CHIKUNGUNYA VIRUS INFECTIOUS CLONE TO EXPRESS HETEROLOGOUS GENES IN *Aedes aegypti* MOSQUITOES

Dana L. Vanlandingham¹, Konstantin Tsetarkin², Chao Hong², Kimberly Klingler², Kate L. McElroy², Stephen Higgs², Michael J. Lehane¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of Texas Medical Branch, Galveston, TX, United States

943

SURVIVAL OF *ANOPHELES GAMBIAE* S.L. LARVAE DURING THE DRY SEASON ALONG THE NIGER RIVER BED IN MALI

Ibrahima Baber¹, Sogoba Nafomon¹, Seydou Doumbia¹, Moussa Keita¹, Adama Sacko¹, Mamoudou Maiga¹, Brehima Diallo¹, Sekou Koumare¹, Guimoko Dolo¹, Sekou F. Traore¹, Jose Ribeiro²

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944

EVALUATION OF THE RESIDUAL EFFICACY OF TEMEPHOS IN LIMA, PERU

Miriam Palomino, Walter Leon-Cueto, Rosa Mosquera, Lely Solari, Victor Suarez, Pablo Villaseca, Rosario Balta, Cesar Cabezas

National Institutes of Health Peru, Lima, Peru

945

PRESENCE AND DISTRIBUTION OF *Aedes aegypti* IN MUNICIPALITIES OF FOUR DISTRICTS IN THE NORTHERN PART OF LIMA

Walter Leon-Cueto¹, Pablo Villaseca¹, Luis Cubillas², Mauricio Rubín², Rosa Mostorino¹, Rosario Balta¹, Lely Solari¹, Victor Suarez¹, Cesar Cabezas¹

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946

COMPARISON OF TWO METHODS FOR *AEDES (STEGOMYIA) AEGYPTI* CONTROL IN HOUSES IN CALI, COLOMBIA

Camila Gonzalez¹, Horacio Cadena¹, Mauricio Perez¹, Carlos A. Morales², Charles Apperson³, Dawn Wesson⁴, **Clara B. Ocampo**¹

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947

OPTIMAL COLLECTION METHOD FOR *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* IN NEW ORLEANS: COMPARISON OF CO₂-BAITED LIGHT TRAP, NASCI ASPIRATOR AND HUMAN LANDING COLLECTIONS

Dawn M. Wesson, Richard Campanella, Kathryn Benton, Gil Stav, Delmonique Lyons

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948

SEASONALITY OF MALARIA TRANSMISSION RISK IN AN IRRIGATED RICE VILLAGE OF MWEA, KENYA

Patrick Halbig¹, Josephat Shililu², John Githure², Robert Novak³, Robert Novak³

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Protozoa – Amoeba/Giardia

949

GENETIC VARIABILITY OF *ENTAMOEBA HISTOLYTICA* CLINICAL ISOLATES FROM GEORGIA

Sophia Simonishvili¹, Shota Tsanava¹, Ketevan Sanadze¹, Rusudan Chlikadze¹, Anna Miskalishvili¹, Nino Lomkatsi¹, Paata Imnadze¹, William A. Petri², **Nino Trapaidze**¹

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(ACMCIP Abstract)

950

IL-10 IS ESSENTIAL FOR PROTECTION AGAINST *E. HISTOLYTICA* INFECTION

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(ACMCIP Abstract)

951

COMPARISON OF DIFFERENT STOOL FIXATIVES FOR PCR-BASED IDENTIFICATION OF *ENTAMOEBA HISTOLYTICA*

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952

GUT MUCOSAL GENE EXPRESSION AS DETERMINED BY OLIGONUCLEOTIDE ARRAYS IN RESPONSE TO *GIARDIA LAMBLIA* – HOST INTERACTIONS

Ernest A. Tako, Erqiu Li, Steven M. Singer

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(ACMCIP Abstract)

953

GIARDIASIS AND CO-PATHOGEN INFECTION AMONG CHILDREN WITH ACUTE DIARRHEA IN EGYPT

Ibrahim Adib Abdel-Messih¹, Carey S. Schlett¹, **Mark S. Riddle**¹, Thomas S. Wierzba¹, Remon S. Abu-Elyazeed¹, Abdel-Fattah Ibrahim², Khaled Zabady³, Salwa F. Ahmed¹, Stephen J. Savarino⁴, John W. Sanders¹

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Protozoa – Opportunistic Protozoa

954

A THREE-DIMENSIONAL HCT8 ORGANOID MODEL OF CRYPTOSPORIDIAL INFECTION

Cirle Alcantara Warren¹, Raul V. Destura¹, Jesus Emmanuel S. Sevilleja¹, Humberto Carvalho², Allison D. O'Brien², Leah J. Barrett³, Richard L. Guerrant³

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955

ISOLATION OF DENDRITIC CELLS IN CHICKENS INFECTED WITH *EIMERIA TENELLA*

Emilio del Cacho, Margarita Gallego, Fernando López-Bernad, Caridad Sánchez-Acedo, Joaquin Quílez

University of Zaragoza, Zaragoza, Spain

(ACMCIP Abstract)

Trematodes – Schistosomiasis**956****SCHISTOSOMA MANSONI: CYTOKINES LEVELS BEFORE AND AFTER HUMAN TREATMENT**

Pauline M. Leite¹, Elizabeth Castro Moreno², Olindo Assis Martins Filho³, Alda Maria Soares Silveira¹, Luiz Cosme Cotta Malaquias¹, Giovanni Gazzinelli³, Philip LoVerde⁴, Rodrigo Correa Oliveira³, Lucia Alves Oliveira Fraga¹

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(ACMCIP Abstract)

957**NO-DEPENDENT CHANGES IN SCHISTOSOMA MANSONI GENE EXPRESSION IDENTIFIED BY SAGE**

Shanta M. Messerli¹, Shanda R. Birkeland¹, Jeremiah Bernier², Michael J. Cipriano¹, Andrew G. McArthur¹, Robert M. Greenberg¹

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(ACMCIP Abstract)

958**COMMUNITY PARTICIPATION DOES NOT ENSURE PARTICIPATION IN SCHISTOSOMIASIS MASS CHEMOTHERAPY**

Veronica L. Tallo¹, Portia P. Alday¹, Mila C. Fulache¹, Helene Carabin², Stephen T. McGarvey³, Remigio M. Olveda¹

¹Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ²University of Oklahoma Health Sciences Center, Oklahoma, OK, United States, ³International Health Institute, Brown University, Providence, RI, United States

959**CLIMATE-BASED PREDICTION OF THE POTENTIAL DISTRIBUTION OF SCHISTOSOMIASIS IN BRAZIL**

John B. Malone¹, Maria E. Bavia², Ronaldo Amaral³, Pricia Nieto¹

¹Louisiana State University, Baton Rouge, LA, United States, ²Federal University of Bahia, Salvador, Brazil, ³Ministry of Health, Brazilia, Brazil

960**TRANSDUCTION OF SCHISTOSOMA MANSONI SPOROCYSTS BY VSV-G PSEUDOTYPED MOLONEY MURINE LEUKEMIA RETROVIRAL CONSTRUCTS**

Kristine J. Kines¹, Victoria H. Mann¹, Maria E. Morales¹, Bryan Shelby¹, Bernd H. Kalinna², Paul J. Brindley¹

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(ACMCIP Abstract)

961**LUCIFERASE REPORTER ACTIVITY IN INSECT AND MAMMALIAN CELL LINES DRIVEN BY SCHISTOSOME GENE PROMOTERS**

Porn tip Pinlaor, Kristine J. Kines, Victoria H. Mann, Maria E. Morales, Claudia S. Copeland, Paul J. Brindley

Tulane University, New Orleans, LA, United States

962**DESCRIBING SCHISTOSOMA JAPONICUM INFECTION AND VILLAGE-TO-VILLAGE VARIATION IN THE INTENSITY OF INFECTION IN HUMANS IN A SCHISTOSOMA JAPONICUM ENDEMIC REGION OF THE PHILIPPINES**

Mushfiqur Tarafder¹, Veronica Tallo², Helene Carabin¹, Ernesto Balolong², Portia Alday², Ryan Gonzales², Remigion Olveda², Stephen T. McGarvey³, Hélène Carabin¹, Patrick Belisle⁴, Lawrence Joseph⁴

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

963**RECONSIDERATION OF THE ROLE OF WATER BUFFALOES AS RESERVOIR HOSTS OF SCHISTOSOMIASIS JAPONICA IN THE PHILIPPINES**

A. Lee Willingham¹, Ernesto Balolong², Tomas Fernandez³, Helene Carabin⁴, Stephen T. McGarvey⁵, Remigio Olveda²

¹International Livestock Research Institute, Nairobi, Kenya, ²Research Institute of Tropical Medicine, Alabang, Philippines, ³Veterinary Faculty, Leyte State University, Baybay, Philippines, ⁴University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ⁵Brown University, Providence, RI, United States

Viruses – Other**964****SEROPREVALENCE AND EPIDEMIOLOGICAL CHARACTERISTICS OF HUMAN T-LYMPHOTROPIC VIRUS TYPE I AMONG SEX WORKERS IN THE CITY OF IQUITOS BETWEEN APRIL 2003 AND JANUARY 2004**

Moises G. Sihuinchá Maldonado¹, Geny Guzman², Ada Valverde³, Cesar Cabezas³, Pilar Jarana⁴, Norberto Tangoa⁴, Oscar Guerra⁴

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965**A STUDY OF SUBCLINICAL INFECTION ON HEPATITIS E Xueyi Cao**

ThinkTank Research Center for Health Development, Beijing, China

966

SPECIFIC DETECTION OF WESTERN EQUINE ENCEPHALITIS VIRUS BY REAL-TIME RT-PCR**Martin Pfeffer**¹, Olfert Landt², Richard M. Kinney³, Roman Wölfel¹, Sandra Essbauer¹, Gerhard Dobler¹¹Bundeswehr Institute of Microbiology, Munich, Germany,²TibMolBiol, Berlin, Germany, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

967

GENOME CHARACTERIZATION OF SMALLPOX VIRUS BY RESEQUENCING GENECHIPS**Irshad M. Sulaiman**¹, Scott Sammons², Alan Frace², Elizabeth Neuhaus², Inger Damon³, Robert M. Wohlhueter²¹Centers for Disease Control and Prevention/National Center for Infectious Diseases/SRP/BCFB/AREF, Atlanta, GA, United States,²Centers for Disease Control and Prevention/National Center for Infectious Diseases/SRP/BCFB, Atlanta, GA, United States,³Centers for Disease Control and Prevention/National Center for Infectious Diseases/DVRD/Poxvirus Section, Atlanta, GA, United States

968

ARBOVIRAL CAUSES OF FEVER IN ECUADOR, BOLIVIA AND PERU, 2000 - 2005**Carolina Guevara**¹, Karla Block¹, Claudio Rocha¹, Zonia Rios¹, Alfredo Huaman¹, Roger Castillo¹, Vidal Felices¹, Cristhopher Cruz¹, Kevin Russel², Tadeusz Kochel², Patrick Blair², Cesar Naquira³, Eduardo Gotuzzo⁴, Luis Suarez⁵, Jorge Vargas⁶, Steve Manock⁷, Narcisa Brito⁷, Cesar Madrid⁸, M. Merizalde⁹, Tadeusz Kochel²¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³Instituto Nacional de Salud, Ministerio de Salud, Peru,⁴Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Centro Nacional de Enfermedades Tropicales, Cenotrop Santa Cruz, Bolivia,⁷Hospital Vozandes, Shell, Ecuador,⁸Hospital Naval, Guayaquil, Ecuador,⁹Hospital Militar, Puyo, Ecuador

969

IMPROVEMENT OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS VACCINE ENVELOPE ANTIGENS BY USING DIRECTED MOLECULAR EVOLUTION**Lesley Dupuy**¹, Michelle Richards¹, Madan Paidhungat², Jack A. Lohre², Maria A. Kuznetsova², Peter Silvera³, Ruxandra Draghia⁴, Robert G. Whalen², Connie Schmaljohn¹, Christopher P. Locher²¹U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States,²Maxygen, Inc., Redwood City, CA, United States,³Southern Research Institute, Frederick, MD, United States,⁴Advisys, The Woodlands, TX, United States

970

HUMAN ILLNESS CAUSED BY CARAPARU AND MURUTUCU (GROUP C) VIRUSES, PERU, 2003 AND 2004**Alfredo Huaman**¹, Roxana Cáceda¹, Juan Perez¹, Roger Castillo¹, Zonia Rios¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Claudia Zavaleta², Patrick Blair³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, Eduardo Gotuzzo⁷, James Olson³¹U.S. Naval Medical Research Center Detachment, Lima, Peru,²Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru,³U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,⁴Dirección de Salud, Iquitos, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Instituto Nacional de Salud, Ministerio de Salud, Peru,⁷Universidad Peruana Cayetano Heredia, Lima, Peru

971

INCIDENCE OF ARBOVIRAL ILLNESSES IN SCHOOL CHILDREN, IQUITOS, PERU, 2000-2004**Cecilia Rivera**¹, Carolina Guevara¹, Alfredo Huaman¹, Roger Castillo¹, Roxana Cáceda¹, Juan Perez¹, Claudio Rocha¹, Karla Block¹, Tadeusz Kochel², Patrick Blair², James Olson², Amy Morrison², Tomas Scott³¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³University of Davis, Davis, CA, United States

972

CLINICAL EVALUATION AND VIROLOGIC DIAGNOSIS OF VENEZUELAN EQUINE ENCEPHALITIS IN PERU, JANUARY 2000-FEBRUARY 2005**Zonia Rios**¹, Roger Castillo¹, Silvia Montano¹, Alfredo Huaman¹, Roxana Cáceda¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Patrick Blair², Tadeusz Kochel², Eduardo Gotuzzo³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, James Olson²¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³Universidad Peruana Cayetano Heredia, Lima, Peru,⁴Dirección de Salud, Iquitos, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Instituto Nacional de Salud, Ministerio de Salud, Lima, Peru

973

IN VITRO, MELATONIN TREATMENT DECREASES NITRIC OXIDE LEVELS IN MURINE SPLENOCYTES CULTURED WITH THE VENEZUELAN EQUINE ENCEPHALOMYELITIS VIRUS**Nereida Valero**¹, Eddy Meleán¹, Ernesto Bonilla², Julia Arias¹, Luz Marina Espina¹, Leonor Chacín-Bonilla¹, Yraima Larreal¹, Merybell Maldonado¹, Florencio Añez¹, Germán J. Añez¹¹Instituto de Investigaciones Clínicas "Dr. Américo Negrette", Maracaibo, Venezuela,²Instituto de Investigaciones Clínicas "Dr. Américo Negrette"/Departamento de Neurobiología. Instituto de Investigaciones Biomédicas (INBIOMED), Maracaibo, Venezuela

974

SEROLOGIC EVIDENCE OF EMCV IN RODENTS IN PERU 2004 – 2005

Roger Castillo¹, Christian Albuja¹, Alfredo Human¹, Carolina Guevara¹, Victor Pacheco², Ursula Fajardo³, James Olson¹

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975

HUMORAL IMMUNE RESPONSES OF CONVALESCENT PATIENTS WITH HANTAVIRUS PULMONARY SYNDROME: CHARACTERIZATION OF IGM, IGG, IGA, AND ISOTYPIC IGG SUBCLASSES

Adrienne Pierce, Robert Nofchissey, Sara Arguello, Claire Ralph, Brian Hjelle, Diane Goade

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976

REPLICATION OF FLOCK HOUSE VIRUS IN MEDICALLY IMPORTANT ARTHROPODS

Ranjit Dasgupta¹, Susan M. Zietlow¹, Heather M. Free¹, Susan M. Paskewitz², Serap Aksoy³, Lei Shi², James H. Oliver⁴, Bruce M. Christensen¹

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977

SEROPREVALENCE OF HANTAVIRUS IN CLETHRIONOMYS RUTILUS IN ALASKA USING A MULTIANTIGEN SIA AND RTPCR

Claire C. Ralph, Robert A. Nofchissey, Sara L. Arguello, Diane E. Goade, Joseph A. Cook

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978

SEROPREVALENCE AGAINST PUUMALA VIRUS IN DIFFERENT POPULATIONS DURING AN OUTBREAK IN EASTERN BAVARIA, GERMANY

Gerhard Dobler¹, Sandra Essbauer¹, Martin Pfeffer¹, Stefan Rapp², Roman Wölfel¹, Rainer Ulrich³, Wolfgang Blank⁴

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ACMCIP Abstracts – Molecular, Cellular and Immunoparasitology

636, 637, 642, 643, 646, 657, 679, 684, 715, 730, 731, 742, 760, 766, 767, 770, 781, 784, 785, 786, 787, 788, 789, 790, 792, 798, 800, 815, 832, 846, 852, 856, 860, 861, 862, 865, 868, 869, 874, 875, 876, 880, 881, 883, 888, 890, 905, 920, 949, 950, 952, 955, 956, 957, 960

CME/Courses Committee Meeting

Adams

Wednesday, December 14

12:15 – 1:15 p.m.

Exam Executive Committee Meeting

Edison

Wednesday, December 14

12:15 – 1:15 p.m.

Meet the Professors 113**Meet the Professors D: It's the Singer, Not the Song: How to Give an Effective Medical and Scientific Presentation**

Supported with funding from GlaxoSmithKline

Lincoln East

Wednesday, December 14

12:15 – 1:15 p.m.

This session will explore how science, levity and personal anecdotes combine for a dynamic and engaging presentation.

PRESENTER

Jay Keystone

Toronto Hospital, Toronto, ON, Canada

Mid-Day Session Attendees:

Pick up a box lunch in the exhibit hall to bring to your session.

Mid-Day Session 114**History of Medicine: Yellow Fever (Movie)**

Lincoln West

Wednesday, December 14

12:15 – 1:15 p.m.

This 40-minute film relates the expedition undertaken in 1954 by Richard Moreland Taylor and young scientists Herbert Hurlbutt and Telford H. Work, all working under the auspices of the Rockefeller Foundation at NAMRU-3, Cairo, Egypt. The purpose of this expedition was to evaluate Yellow Fever endemicity following the severe outbreak which struck the secluded Nuba populations in 1942. This film deals essentially with the different habitats conducive to the maintenance of a Yellow Fever transmission cycle. It starts with the DC3 flight planning over the Nubian desert, then Khartoum, with a striking view of the White Nile/Blue Nile junction under the bridge of Ombdurnam. There is a brief sequence on Khartoum, then some insight about the logistics of this trip, which is by train (steam locomotive) up to El Obeid, and then over land up to the Bhar El Arab at the Southern edge of Sudan. As the team goes from village to village, Work lingers on the customs and lifestyle of both the Nuba and the Dinka in the South. There is a glimpse of the Galagos and other primates which might be involved as a reservoir for the virus. The emphasis is on habitats as a determinant of possible virus endemicity: from short grass/Acacia savannah, to the isolated hillocks in the Nuba mountains, the Southern Lakes where the Baggarra and their cattle migrate, and finally the lush high grass Savannah and broad leaf trees of the South. This is probably one of the rare instances where one will see Dr. Taylor bleeding the Nuba children, and a very young Telford Work doing an autopsy of a Guenon. This film covers landscapes and people, and provides an insight about what it was to work in Africa in 1954.

Mid-Day Session 115**PubMed and HINARI: Searching and Getting the Articles You Want***Jefferson East*

Wednesday, December 14 12:15 – 1:15 p.m.

PubMed is a Web interface enabling the users to search MEDLINE, the U.S. National Library of Medicine's premier bibliographic database covering the fields of medicine, nursing, dentistry, veterinary medicine, the health care system, and the pre-clinical sciences. MEDLINE contains bibliographic citations and author abstracts from more than 4,800 biomedical journals published in the United States and 70 other countries. Coverage is worldwide, but most records are from English-language sources or have English abstracts. Health Internetwork is a partnership between the World Health Organization and several major biomedical publishers providing registered institutions in certain developing countries free full text access to more than 3000 scientific journals. Attendees will learn the basics and some advanced techniques of searching PubMed and retrieving the full text article online through PubMed free full text filter, PubMed Central, and especially HINARI. Also, saved search strategies and automated email updates with links to full text for HINARI via MyNCBI will be introduced. Additional instructional CDs will be provided to all attendees during the session or at the NCBI Exhibit booth. <http://www.healthinternetwork.org/> <http://www.pubmed.gov/>

Chuong Huynh

*National Institutes of Health/NLM/NCBI, Bethesda, MD, United States***Scientific Session 116****HIV in the Tropics***Hemisphere*

Wednesday, December 14 1:30 – 3:30 p.m.

CHAIR

Jean B. Nachega*Johns Hopkins University, Baltimore, MD, United States***Davidson H. Hamer***Boston University, Center for International Health and Development, Boston, MA, United States*

1:30 p.m.

979

MORBIDITY AND MORTALITY AMONG CHILDREN LIVING WITH HIV IN BLANTYRE, MALAWI

Miriam Laufer¹, Joep J. vanOosterhout², Maria A. Perez², Joseph Kanyangalika³, Feston Thumbā³, Terrie E. Taylor⁴, Christopher V. Plowe¹, Stephen M. Graham⁵

¹University of Maryland, Baltimore, MD, United States, ²University of Malawi College of Medicine, Blantyre, Malawi, ³Blantyre Malaria Project, Blantyre, Malawi, ⁴Michigan State University, E. Lansing, MI, United States, ⁵Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

1:45 p.m.

980

BURDEN OF HIV/AIDS IN A MEDICAL EMERGENCY SETTING AT MULAGO NATIONAL REFERRAL HOSPITAL, UGANDA

Daniel J. Kyabayinze, Damalie K. Nakanjako, Moses R. Kamyā, Elly Katabira

Makerere University, Kampala, Uganda

2 p.m.

981

HIGH PREVALENCE OF HIV AND SYPHILIS INFECTION IN A NATIVE COMMUNITY OF THE PERUVIAN AMAZON

Carol Zavaleta¹, Connie Fernandez², Yadira Valderrama², Kelika A. Konda³, Eduardo Gotuzzo¹

¹Cayetano Heredia University, LIMA, Peru, ²Santa Gema Hospital, Yurimaguas, Peru, ³University of California, Los Angeles, Los Angeles, CA, United States

2:15 p.m.

982

ASSOCIATION OF ENTAMOEBIA HISTOLYTICA/DISPAR WITH CD4 COUNT AMONG HIV/AIDS PATIENTS WITH COMPLAINTS OF DIARRHEA FROM THREE HOPITALS IN ADDIS ABABA, ETHIOPIA**Amha K. Habtemicahel***Ethiopian Health and Nutrition Research Institute, Addis Ababa, Ethiopia*

2:30 p.m.

983

PREVALENCE AND FACTORS ASSOCIATED WITH FUNCTIONAL ADRENAL INSUFFICIENCY IN CRITICALLY ILL HIV PATIENTS IN MULAGO HOSPITAL

David B. Meya¹, Elly Katabira¹, Allan Ronald², Marcel A. Otim¹, Robert Colebunders³, Merle Sande⁴

¹Makerere University Medical School Kampala Uganda, Kampala, Uganda, ²Infectious diseases, St. Boniface Hospital, Winnipeg, MB, Canada, ³Infectious disease Institute, Kampala, Uganda, ⁴University of Utah Medicine School, Salt Lake City, UT, United States

2:45 p.m.

984

THE APPLICATION OF HIV-RELATED BIOSAFETY GUIDELINES BY MEDICAL LABORATORY WORKERS IN OYO STATE

Oladebo Oladimeji, Veronica O. Ogunleye
University of Ibadan, Ibadan, Nigeria

3 p.m.

985

FALSE REACTIVE HIV SEROLOGIC TESTS IN PATIENTS WITH ACUTE MALARIA

Candida Abreu¹, Vicenz Diaz-Brito¹, Carla Monteiro², Fernando Araujo², Regina Pereira², Antonio Mota-Miranda¹
¹Department of Infectious Diseases - Hospital S Joao and School of Medicine, Porto, Portugal, ²Department of Immunohemotherapy - Hospital S Joao and School of Medicine, Porto, Portugal

3:15 p.m.

1099

NEW TOOL FOR *IN VITRO* WORK ON HIV AND LEISHMANIA CO-INFECTION IMMUNOPATHOGENESIS

Sanjay Mehta¹, Zhang Xing-Quan¹, Celsa Spina¹, John Day¹, Robert Schooley¹, Roberto Badaro²
¹University of California at San Diego, San Diego, CA, ²Federal University of Bahia, Bahia, Brazil

Scientific Session 117**Ectoparasite-Borne Diseases II***Military*

Wednesday, December 14 1:30 – 3 p.m.

CHAIR

Wei-Mei Ching*Naval Medical Research Center, Silver Spring, MD, United States***Ivo M. Foppa***University of South Carolina, Columbia, SC, United States*

1:30 p.m.

FROM TICK SPIT TO SPITOMES**Jose Ribeiro***National Institutes of Health, National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States*

2 p.m.

986

BASIC REPRODUCTIVE NUMBER ESTIMATES FOR DEER TICK-BORNE ZOONOSES IN THE ATLANTIC NORTHEAST

Ivo M. Foppa¹, Heidi K. Goethert², Andrew Spielman³, Sam R. Telford²

¹Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ²Tufts University School of Veterinary Medicine, North Grafton, MA, United States, ³Harvard School of Public Health, Boston, MA, United States

2:15 p.m.

987

DEMOGRAPHIC AND GEOGRAPHIC RISK FACTORS AMONG *BABESIA MICROTI* SEROPOSITIVE BLOOD DONORS IN CONNECTICUT

Jonathan J. Trouern-Trend¹, Stephanie T. Johnson¹, Ritchard G. Cable¹, David A. Leiby²
¹American Red Cross, Farmington, CT, United States, ²American Red Cross, Rockville, MD, United States

2:30 p.m.

988

USE OF GIS AND CLUSTER ANALYSIS IN A BLOOD CENTER SETTING TO DEFINE *BABESIA MICROTI* AND *ANAPLASMA PHAGOCYTOPHILUM* HYPERENDEMIC AREAS IN CONNECTICUT

Stephanie T. Johnson¹, Jennifer E. Gill², David A. Leiby², Megan Proctor-Nguyen², Ritchard G. Cable¹
¹American Red Cross, Farmington, CT, United States, ²American Red Cross Holland Laboratory, Rockville, MD, United States

2:45 p.m.

989

EVALUATION OF THE LONG TERM PROTECTIVE EFFICACY AND IMMUNOGENICITY OF A DNA VACCINE PLASMID EXPRESSING THE 47 KDA ANTIGEN OF *ORIENTIA TSUTSUGAMUSHI* AND THE SAFETY OF THIS DNA VACCINE CANDIDATE IN AN OUTBRED MOUSE MODEL

Wei-Mei Ching¹, Todd O. Johnson², Teik-Chye Chan¹, Chien-Chung Chao¹, Hong Ge¹, Guang Xu¹, Ju Jiang¹, Suchismita Chattopadhyay¹, Allen L. Richards¹
¹USUHS, Bethesda, MD and Naval Med Res Ctr, Silver Spring, MD, United States, ²Naval Med Res Ctr, Silver Spring, MD, United States

Symposium 118**Staying on the Correct Path During Clinical Development of Preventive Vaccines: An Overperspective***Monroe East*

Wednesday, December 14 1:30 – 3:15 p.m.

Reviewers from the Office of Vaccines Research and Review (OVRR) will discuss key regulatory issues to consider during clinical development of preventive vaccines. Topics covered will include the administrative process and potential pitfalls of submitting an IND application, the manufacture and characterization of preventive vaccines, and the design of clinical studies, including statistical issues, of preventive vaccines.

CHAIR

Jon R. Daugherty*United States Food and Drug Administration, Rockville, MD, United States*

1:30 p.m.

INTRODUCTION

Jon R. Daugherty
U.S. Food and Drug Administration, Rockville, MD, United States

1:35 p.m.

FILING AN INVESTIGATIONAL NEW DRUG (IND) APPLICATION: THE ADMINISTRATIVE PROCESS AND POTENTIAL PITFALLS

George R. Gentile
United States Food and Drug Administration, Rockville, MD, United States

1:55 p.m.

FROM THE LAB BENCH TO THE CLINIC: REGULATORY ISSUES IN THE MANUFACTURE AND PRECLINICAL TESTING OF NEW PREVENTIVE VACCINES

Sheldon L. Morris
United States Food and Drug Administration, Bethesda, MD, United States

2:15 p.m.

CLINICAL ISSUES TO CONSIDER IN THE DEVELOPMENT OF NEW PREVENTIVE VACCINES

Steve R. Rosenthal
United States Food and Drug Administration, Rockville, MD, United States

2:35 p.m.

USE OF BRIDGING STUDIES IN THE CLINICAL EVALUATION OF PREVENTIVE VACCINES

Ann T. Schwartz
United States Food and Drug Administration, Rockville, MD, United States

2:55 p.m.

STATISTICAL ISSUES TO CONSIDER WHEN DESIGNING CLINICAL TRIALS FOR A NEW VACCINE

Henry S. Hsu
United States Food and Drug Administration, Rockville, MD, United States

Scientific Session 119

Mosquitoes — Vector Biology — Epidemiology III

Monroe West

Wednesday, December 14 1:30 – 3:15 p.m.

CHAIR

Gay Gibson

Chicago, IL, United States

Carlo Costantini

Institut de Recherche pour le Développement, Ouagadougou, Burkina Faso

1:30 p.m.

990

INTRINSIC HOST ODOR PREFERENCES OF ANOPHELES ARABIENSIS AND AN. QUADRIANNULATUS FROM A REMOTE GAME AREA OF ZIMBABWE

Carlo Costantini¹, Glyn Vale², Federica Santolamazza³, Alessandra della Torre³, Steve Torr²
¹*Institut de Recherche pour le Développement, Research Unit #016 "Population biology and control of insect disease vectors", Ouagadougou, Burkina Faso,* ²*University of Greenwich/Natural Resources Institute, Chatham Maritime, United Kingdom,* ³*Parasitology Unit, Dept. Public Health, University of Rome "La Sapienza", Rome, Italy*

1:45 p.m.

991

AUDITORY INTERACTIONS BETWEEN MALES AND FEMALES OF THE MOSQUITO TOXORHYNCHITES BREVIPALPIS

Gabriella Gibson¹, Ian Russell²
¹*Natural Resources Institute, Chatham Maritime, Kent, United Kingdom,* ²*University of Sussex, Falmer, East Sussex, United Kingdom*

2 p.m.

992

IMPACT OF THE DENGUE VECTOR CONTROL SYSTEM (DVCS) ON Aedes Aegypti POPULATIONS IN IQUITOS, PERU 2004-2005

Amy Morrison¹, Helvio Astete¹, Claudio Rocha², Victor Lopez², Jim Olson², Tadeuz Kochel², Moises Sihuinchu³, Jeff Stancil²
¹*University of California, Davis, CA, United States,* ²*Naval Medical Research Center, Detachment, APO, AE, United States,* ³*Direccion de Salud, Laboratorio Referencial, Iquitos, Peru*

2:15 p.m.

993

AUTOGENY BY Culex pipiens GROUP MOSQUITOES IN THE SAN FRANCISCO BAY AREA AND IMPLICATIONS FOR WNV TRANSMISSION

Daniel Strickman¹, Carolyn M. Bahnck², Dina M. Fonseca²
¹*Vector Control District, Santa Clara County, San Jose, CA, United States,* ²*Academy of Natural Sciences, Philadelphia, PA, United States*

Wednesday, December 14

2:30 p.m.

994

EFFECTS OF DEFORESTATION ON THE SURVIVAL, REPRODUCTIVE FITNESS AND GONOTROPHIC CYCLE OF *ANOPHELES GAMBIAE* IN WESTERN KENYA HIGHLANDS

Yaw A. Afrane¹, Goufa Zhou², Bernard W. Lawson³, Andrew K. Githeko¹, Guiyun Yan²

¹Kenya Medical Research Institute, Kisumu., Kenya, ²State University of New York at Buffalo, Buffalo, NY, United States, ³Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2:45 p.m.

995

THE SPECIES-RICH *ANOPHELES ANNULIPES* COMPLEX

Desmond H. Foley, Richard C. Wilkerson

Walter Reed Army Institute of Research, Suitland, MD, United States

3 p.m.

996

GEOGRAPHIC AND ECOLOGIC DISTRIBUTION OF THE MALARIA VECTOR, *ANOPHELES SINENSIS* IN KOREA AND OTHER PARTS OF ASIA

Leopoldo M. Rueda¹, Desmond H. Foley¹, A. Townsend Peterson², Richard C. Wilkerson¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²University of Kansas, Museum of Natural History, Lawrence, KS, United States

Symposium 120
The Pediatric Traveler

Lincoln West

Wednesday, December 14 1:30 – 3:15 p.m.

Millions of children cross international borders each year. International adoptees and migrants pose new challenges for practitioners. How can they best be prepared for travel? What should be done when they return ill? In this symposium, participants will review current pre-travel counsel and interventions, and instructive case studies of post-travel problems will be discussed.

CHAIR

Sheila Mackell

Mountain View Pediatrics, Flagstaff, AZ, United States

1:30 p.m.

PRACTICAL PREPARATION FOR TRAVELING FAMILIES

Karl Neumann

Forest Hills Family Travel and Immunization Center, New York, NY, United States

2:05 p.m.

ILLNESS IN RETURNING CHILD TRAVELERS AND MIGRANTS

William Stauffer

University of Minnesota, Minneapolis, MN, United States

2:40 p.m.

UPDATE ON VACCINATING THE PEDIATRIC TRAVELER

Sheila Mackell

Mountain View Pediatrics, Flagstaff, AZ, United States

Symposium 120A
A Global Database of Antimalarial Drug Effectiveness: It's About Time

Jefferson East

Wednesday, December 14 1:30 – 3:15 p.m.

A small group has been working for about a year to coordinate efforts to create a dynamic open access database that would include current and historical data on clinical efficacy, pharmacokinetics, *in vitro* responses and molecular markers related to drug resistance in *P. falciparum* and *P. vivax*. The speakers in the symposium will summarize their own work in this area and inform attendees how they can join in the effort to create this important resource

CHAIR

Carol H. Sibley

University of Washington, Seattle, WA, United States

Olumide Ogundahunsi

World Health Organization, Geneva, Switzerland

1:30 p.m.

CLINICAL TRIALS OF ANTIMALARIA DRUG EFFICACY: WHAT CAN METANALYSIS TELL US?

Nicholas White

Mahidol University, Bangkok, Thailand

1:55 p.m.

MOLECULAR MARKERS: TOOLS FOR UNDERSTANDING SELECTION FOR DRUG RESISTANCE IN AFRICAN *P. FALCIPARUM* POPULATIONS

Cally Roper

London School of Hygiene and Tropical Medicine, London, United Kingdom

2:25 p.m.

SURVEILLANCE ON A GLOBAL SCALE

Dennis E. Kyle

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

2:50 p.m.

THE MIM NETWORK AS A PROTOTYPE FOR A COMMON DATABASE

Olumide A. Ogundahunsi
World Health Organization, Geneva, Switzerland

Symposium 121

Japanese Encephalitis: Defining Disease Burden and New Tools for Diagnosing Disease

Jefferson West

Wednesday, December 14 1:30 – 3:15 p.m.

The endemic area for JE has been defined for many years, however, the actual burden of disease for JE remains poorly defined in many parts of Asia. Many countries, although considered endemic, have no data on disease transmission so the extent of the problem still eludes us. This symposia will give new data from activities related to defining the disease burden of JE disease in endemic countries. We will introduce new surveillance data including information from sites where JE cases had not been previously seen. We also will introduce new tools and techniques that are expanding access to diagnostics in the field, even in poor rural settings in Asia. All of this information is leading to a better understanding of JE disease in Asia and how to control it.

CHAIR

Julie Jacobson

PATH, Seattle, WA, United States

Lyle Petersen

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

1:30 p.m.

JAPANESE ENCEPHALITIS IN INDONESIA: AN EMERGING ENDEMIC DISEASE

Agus Suwandono
National Institute of Health Research and Development, Jakarta, Indonesia

1:50 p.m.

ALL CAUSE ENCEPHALITIS STUDIES IN THAILAND: JAPANESE ENCEPHALITIS IN A COUNTRY WITH UNIVERSAL JE IMMUNIZATION

Sonja Olsen
Centers for Disease Control and Prevention, Bangkok, Thailand

2:10 p.m.

ENCEPHALITIS SURVEILLANCE IN BANGLADESH: JAPANESE ENCEPHALITIS REDISCOVERED

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

2:30 p.m.

SIMPLIFIED DIAGNOSTICS FOR JE DETERMINATION: A HEAD-TO-HEAD COMPARISON OF 3 IGM ELISA KITS

Robert Gibbons
Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand

2:50 p.m.

FIELD EXPERIENCE OF EXPANDING ACCESS TO JE DIAGNOSTICS: THE USE OF FILTER PAPER FOR SAMPLE COLLECTION IN INDONESIA

Vanda Moniaga
PATH, Jakarta, Indonesia

Symposium 122

Polymicrobial Diseases in the Tropics

Georgetown East

Wednesday, December 14 1:30 – 3:15 p.m.

Within the last few years, the concept that many diseases often called polymicrobial diseases can be etiologically linked to infection by more than one pathogen has been gaining more attention and awareness. Although much of the worlds population are infected with parasitic, viral and bacterial pathogens, the consequences to the host immune response following co-infection and what polymicrobial diseases result from these infections remain largely unstudied. In this symposium, we will explore the interaction between several pathogens and their potential link to polymicrobial diseases.

CHAIR

Rosemary Rochford

SUNY Upstate Medical University, Syracuse, NY, United States

Ann M. Moormann

Case Western Reserve University, Cleveland, United States

1:30 p.m.

INTERACTIONS BETWEEN MALARIA AND EPSTEIN-BARR VIRUS: CLUES TO THE GENESIS OF BURKITT'S LYMPHOMA

Rosemary Rochford
SUNY Upstate Medical University, Syracuse, NY, United States

2 p.m.

EFFECTS OF SCHISTOSOMIASIS ON IMMUNODEFICIENCY VIRUS CO-INFECTIONS

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

Wednesday, December 14

2:25 p.m.**MALARIA, CCR5 AND HIV MOTHER-TO-CHILD TRANSMISSION**

Steven Meshnick
University of North Carolina, Chapel Hill, NC, United States

2:50 p.m.**MYCOBACTERIAL/HELMINTH CO-INFECTIONS: LESSONS LEARNED FROM BOTH POPULATION AND LABORATORY-BASED STUDIES**

Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

Symposium 123**Ecological Approaches to the Study of Tropical Diseases**

Georgetown West

Wednesday, December 14 1:30 – 3:15 p.m.

During the past three decades, unprecedented rates of change in diversity of non-human biota caused by many factors such as deforestation, agricultural intensification, invasions of exotic species, and climate change have coincided with the emergence and reemergence of many infectious diseases, especially in the tropics. While a descriptive understanding of some examples exists, there is little mechanistic understanding of basic ecological principles that may regulate infectious disease emergence. Recently, advances have been made in the ability to analyze and model biocomplexity and ecological dynamics, and to evaluate spatial and temporal aspects of environmental change. Combined with improvements in the understanding of pathogen and vector molecular biology, as well as host defense, these advances have resulted in improvements in our understanding of epidemiology and transmission patterns of several tropical and emerging diseases. This symposium will highlight four projects that take a variety of ecological approaches to study parasitic and viral tropical diseases.

CHAIR

Scott C. Weaver

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

Joshua Rosenthal

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

Samuel M. Scheiner

Division of Environmental Biology National Science Foundation, Arlington, VA

1:30 p.m.**SCHISTOSOMIASIS: TURNING ECOLOGY INTO POLICY**

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

1:55 p.m.**LAND COVER CHANGES AND ECHINOCOCCOSIS TRANSMISSION IN CHINA**

Patrick Giraudoux
University of Franche-Comte, Besancon, France

2:20 p.m.**ENVIRONMENTAL DETERMINANTS OF HIGHLAND MALARIA IN KENYA**

Mark L. Wilson
University of Michigan, Ann Arbor, MI, United States

2:50 p.m.**ANTHROPOGENIC CHANGE AND EMERGING ZONOTIC PARAMYXOVIRUSES**

Peter Daszak
Consortium for Conservation Medicine, New York, NY, United States

Symposium 124**Chagas Disease: A Silent and Silenced Crisis**

International Ballroom East

Wednesday, December 14 1:30 – 3:15 p.m.

Chagas disease affects up to 18 million people in Latin America; it is a fatal and neglected disease which kills around 50,000 people each year. MSF will present the results of its field experience in Honduras and Bolivia, where we have treated over 900 chagas patients. Through its results, MSF will show that chagas is treatable and that people in Latin America are entitled to access to diagnosis and treatment which is appropriate, safe and effective.

CHAIR

Rachel Kiddell-Monroe

Medecins Sans Frontieres/Doctors Without Borders, Montreal, Quebec, Canada

1:30 p.m.**HUMANITARIAN PERSPECTIVES ON CHAGAS: A REVIEW OF MSF POLICY AND FIELD EXPERIENCE IN BOLIVIA AND HONDURAS**

Luis Villa
Medecins Sans Frontieres/Doctors Without Borders, Barcelona, Spain

2:05 p.m.**AN ANALYSIS OF THE MEDICAL DATA FROM MSF'S PROJECTS IN BOLIVIA AND HONDURAS**

Pedro Albajar
Instituto Fiocruz, Rio de Janeiro, Brazil

2:40 p.m.

THE CASE FOR SIMPLE AND EFFECTIVE RAPID DIAGNOSTIC TESTS: A REVIEW OF DIAGNOSTIC TOOLS AVAILABLE FOR CHAGAS:

Martine Guillerm

Medecins Sans Frontieres/Doctors Without Borders, Paris, France

Scientific Session 125

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

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Wednesday, December 14 1:30 – 3:15 p.m.

CHAIR

Joseph M. Vinetz

University of California at San Diego, La Jolla, CA, United States

Subash Babu

National Institutes of Health, Bethesda, MD, United States

1:30 p.m.

1107

TRACKING THE GENERATION OF THE CD4+ T CELL RESPONSE DURING TOXOPLASMOSIS

Marion Pepper, Florence Dzierszinski, David Roos, Christopher A. Hunter

University of Pennsylvania, Philadelphia, PA

1:45 p.m.

997

IMPAIRMENT OF BOTH TH1 AND TH2 RESPONSES IN LYMPHATIC FILARIASIS: A ROLE FOR T CELL EXTRINSIC (TGFβ, IDO, CTLA-4, PD-1) AND INTRINSIC (FOXP3 AND E3 UBIQUITIN LIGASES) FACTORS

Subash Babu¹, Carla P. Blauvelt¹, V. Kumaraswami², Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²TRC, Chennai, India

2 p.m.

998

HELMINTH INFECTION INDUCES A PULMONARY ENVIRONMENT THAT DAMPENS ALLERGEN-INDUCED HYPERREACTIVITY

Joshua Reece, Mark Siracusa, Alan Scott

Johns Hopkins University, Baltimore, MD, United States

2:15 p.m.

1108

GENETIC DIFFERENCES IN HOST SUSCEPTIBILITY OF MICE TO LEISHMANIA MEXICANA REVEALED IN A LOW DOSE EAR INFECTION MODEL

Lucia Rosas, Tracy Keiser, Joseph Barbi, Alecia Septer, Jennifer Kaczmarek, Abhay R. Satoskar

The Ohio State University, Columbus, OH

2:30 p.m.

999

IL-21 RECEPTOR DEFICIENCY DECREASES TH2 RESPONSES FOLLOWING HELMINTH INFECTION

John T. Pesce¹, Mallika Kaviratne Kaviratne¹, Allen W. Cheever², Deborah A. Young³, Mary Collins³, Michael J. Grusby⁴, Joseph F. Urban⁵, Thomas A. Wynn¹

¹National Institutes of Health/National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States, ²Biomedical Research Institute, Rockville, MD, United States, ³Wyeth Research, Cambridge, MA, United States, ⁴Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, ⁵Nutrient Requirements and Functions Laboratory, Beltsville Human Nutrition Research Center, U.S. Department of Agriculture, Beltsville, MD, United States

2:45 p.m.

1000

A NOVEL PRO-INFLAMMATORY T CELL SUBSET MEDIATES HIGH PATHOLOGY IN SCHISTOSOMIASIS

Laura I. Rutitzky, Jessica R. Lopes da Rosa, Miguel J. Stadecker

Tufts University School of Medicine, Boston, MA, United States

3 p.m.

1001

STAT-1 DEFICIENCY INCREASES HOST RESISTANCE AND REDUCES HEPATIC IMMUNOPATHOLOGY DURING VISCERAL LEISHMANIASIS

Abhay Satoskar, Lucia Rosas, Anjali Satoskar, Joseph Barbi, Tracy Pappenfuss, Tracy Keiser, Joan Durbin

Ohio State University, Columbus, OH, United States

Coffee Break

Exhibit Hall

Wednesday, December 14

3:15 – 3:45 p.m.

Scientific Session 126

Malaria — Biology and Pathogenesis II

Military

Wednesday, December 14 3:45 – 5:30 p.m.

CHAIR

D. Channe Gowda

Pennsylvania State University College of Medicine, Hershey, PA, United States

Johanna P. Daily

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

3:45 p.m.

1002

DEVELOPMENT OF MATURE *PLASMODIUM FALCIPARUM* LIVER STAGE PARASITES IN MICE CONTAINING CHIMERIC HUMAN LIVERS

John B. Sacchi¹, Uzma Alam¹, Donna Douglas², Jamie Lewis², D. Lorne Tyrrell², Abdu F. Azad¹, Norman M. Kneteman²

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Alberta, Edmonton, AB, Canada

4 p.m.

1003

CEREBRAL MALARIA (CM) ASSOCIATED BLOOD-BRAIN BARRIER (BBB) APOPTOSIS

Henry B. Armah¹, Vincent C. Bond¹, Zuzana Kucerova¹, Kiantra Ramey¹, Bismark Y. Sarfo², Richard K. Gyasi³, Andrew A. Adjei³, Micheal D. Wilson², Daniel Y. Boakye², Yao Tettey³, Edwin K. Wiredu³, Jonathan K. Stiles¹

¹Morehouse School of Medicine, Atlanta, GA, United States, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana, ³University of Ghana Medical School, Accra, Ghana

(ACMCIP Abstract)

4:15 p.m.

1004

PLATELETS POTENTIATE BRAIN ENDOTHELIAL ALTERATIONS INDUCED BY *PLASMODIUM FALCIPARUM*-PARASITISED RED BLOOD CELLS

Samuel C. Wassmer¹, Brian de Souza², Valéry Combes³, Francisco J. Candal⁴, Irène Juhan-Vague⁵, Georges E. Grau³

¹Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ²Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom, ³CNRS UMR6020, IFR 48, Faculty of Medicine, Université de la Méditerranée, Marseille, France, ⁴Centers for Disease Control and Prevention, National Centre for Infectious Diseases, Atlanta, GA, United States, ⁵Laboratoire d'Hématologie, Hémostase, Fibrinolyse et Pathologie Vasculaire, INSERM UMR 626, IFR 125, Faculty of Medicine, Université de la Méditerranée, Marseille, France

(ACMCIP Abstract)

4:30 p.m.

1005

PLASMODIUM INFECTED ERYTHROCYTES ACTIVATE HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS

Monique F. Stins¹, Abhai Tripathi², David Sullivan²

¹Johns Hopkins SOM, Baltimore, MD, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States

4:45 p.m.

1006

FRAP, A NOVEL *PLASMODIUM FALCIPARUM* PROTEIN INVOLVED IN MALARIA PATHOGENESIS

Rana Nagarkatti¹, Dewal Jani¹, Rana Chattopadhyay², Patricia de la Vega², **Dharmendar Rathore**¹

¹Virginia Bioinformatics Institute, Blacksburg, VA, United States, ²Naval Medical Research Center, Silver Spring, MD, United States

5 p.m.

1007

USE OF A HETERODUPLEX TRACKING ASSAY TO DETECT MULTIPLE *P.FALCIPARUM* INFECTIONS IN PREGNANT MALAWIANS

Jesse J. Kwiek¹, Alisa P. Alker¹, Linda Kalilani¹, Innocent Mofolo², Ella Nkhoma¹, Stephen Rogerson³, Steven R. Meshnick¹

¹UNC-Chapel Hill, Chapel Hill, NC, United States, ²UNC-Malaria Project, Blantyre, Malawi, ³University of Melbourne, Melbourne, Australia

5:15 p.m.

1008

ASSOCIATIONS BETWEEN DEFINED POLYMORPHIC VARIANTS IN THE PFRH LIGAND FAMILY AND THE INVASION PATHWAYS USED BY *P. FALCIPARUM* FIELD ISOLATES FROM BRAZIL

Cheryl A. Lobo¹, Marilis Rodriguez¹, Claudio J. Struchiner², Mariano G. Zalis³, Sara Lustigman¹

¹New York Blood Center, New York, NY, United States, ²Brazilian School of Public Health, FIOCRUZ, Rio de Janeiro, Brazil, ³University Hospital, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

(ACMCIP Abstract)

Symposium 127

Assorted 'Hot Topics' on the Regulation of Preventive Vaccines and Related Biological Products

Monroe East

Wednesday, December 14 3:45 p.m. – 5:30 p.m.

This session will include a discussion of various regulatory topics pertaining to the regulation of preventive vaccines and live biotherapeutic products, including probiotics. These topics will include nonclinical issues pertaining to the safety assessment of preventive vaccines, regulatory considerations in the nonclinical safety assessment of vaccine adjuvants, regulatory pathways to expedite preventive vaccine approvals and regulatory considerations in the development of live biotherapeutic products, including probiotics, for clinical use.

CHAIR

Jon R. Daugherty

United States Food and Drug Administration, Rockville, MD, United States

3:45 p.m.

INTRODUCTION

Jon R. Daugherty

U.S. Food and Drug Administration, Rockville, MD, United States

3:50 p.m.

SAFETY ASSESSMENT OF PREVENTIVE VACCINES: NONCLINICAL ISSUES

Marion F. Gruber

United States Food and Drug Administration, Rockville, MD, United States

4:15 p.m.

REGULATORY CONSIDERATIONS IN THE NONCLINICAL SAFETY ASSESSMENT OF VACCINE ADJUVANTS

Elizabeth M. Sutkowski

United States Food and Drug Administration, Rockville, MD, United States

4:40 p.m.

REGULATORY PATHWAYS TO EXPEDITE PREVENTIVE VACCINE APPROVALS

Jon R. Daugherty

United States Food and Drug Administration, Rockville, MD, United States

5:05 p.m.

REGULATORY CONSIDERATIONS IN THE DEVELOPMENT OF LIVE BIOTHERAPEUTIC PRODUCTS, INCLUDING PROBIOTICS, FOR CLINICAL USE

Julienne M. Vaillancourt

United States Food and Drug Administration, Rockville, MD, United States

Symposium 128

Insect-Parasite Interactions

Monroe West

Wednesday, December 14 3:45 – 5:30 p.m.

A number of deadly infectious diseases, including malaria and leishmaniasis, require an obligatory insect vector for transmission to occur. Thus, the cycle of the parasites in the vector is a potential weak link in the transmission chain. Traditional control measures are either only partially effective (drugs, insecticides) or extremely hard to develop (vaccines). These considerations emphasize the importance to better understand parasite-insect vector interactions because such knowledge could lead to the development of novel control strategies. Exciting new discoveries have recently been made in this area of knowledge. The symposium will highlight some of these advances. Speakers will be asked to relate their discoveries to potential new strategies for disease control.

CHAIR

Marcelo Jacobs-Lorena

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

3:45 p.m.

COMPARATIVE ANALYSES OF ANOPHELES GAMBIAE DEFENSE RESPONSES TO PLASMODIUM FALCIPARUM AND PLASMODIUM BERGHEI INFECTION

George Dimopoulos

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

4:15 p.m.

TWO PEROXIDASES MEDIATE REFRACTORINESS TO PLASMODIUM INFECTION IN *A. GAMBIAE*

Carolina Barillas-Mury

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

4:40 p.m.

VECTOR COMPETENCE OF SAND FLIES FOR LEISHMANIA: TOWARDS A TRANSMISSION BLOCKING VACCINE

Shaden Kamhawi

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

5:05 p.m.

MOLECULAR INTERACTIONS BETWEEN PLASMODIUM SPOROZOITES AND MOSQUITO SALIVARY GLANDS

Marcelo Jacobs-Lorena

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

Symposium 129

Quantitative Models of Vector-Borne Diseases: The First 100 Years

Lincoln East

Wednesday, December 14 3:45 – 5:30 p.m.

The two-fold purpose of this symposium is to showcase mathematical modeling of vector-borne diseases and to facilitate a scientific dialogue between mathematical modelers and basic scientists and epidemiologists attending the annual ASTMH meeting. The four talks will target a scientific audience not specializing in mathematical modeling and will cover a wide range of topics related to mathematical models of vector-borne diseases, including a historical overview, a general discussion of the basic reproductive number, a discussion of factors affecting this quantity and the issue of scale.

CHAIR

Ivo M. Foppa

Arnold School of Public Health, University of South Carolina, Columbia, SC, United States

3:45 p.m.

A BRIEF HISTORY OF MALARIA MODELS

David L. Smith

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

4:15 p.m.

THE CONCEPT OF THE BASIC REPRODUCTIVE NUMBER OF VECTOR-BORNE DISEASES AND ITS SIGNIFICANCE FOR DISEASE CONTROL

Ivo M. Foppa

Arnold School of Public Health, University of South Carolina, Columbia, SC, United States

4:40 p.m.

THE EFFECT OF DIFFERENT BIOLOGICAL ASSUMPTIONS ON R_0 IN WEST NILE VIRUS-LIKE EPIDEMIOLOGICAL MODELS

Marjorie J. Wonham

Centre for Mathematical Biology University of Alberta, Edmonton, AB, Canada

5:05 p.m.

SCALE IN MODELS OF VECTOR-BORNE DISEASE

Cynthia C. Lord

University of Florida, Vero Beach, FL, United States

Symposium 130

Pediatric Concerns in Tropical Medicine Research

Lincoln West

Wednesday, December 14 3:45 – 5:30 p.m.

Children are the focus of tropical medicine research, yet they have distinct needs and concerns as children that require attention beyond standard research studies. While pediatric subjects have helped us to better understand tropical diseases, what do we know about the impact of these diseases on their well-being? This symposium will review the impact of common infectious diseases on the nutrition, growth, and cognitive development of children in tropical countries. The symposium will conclude with a look at the challenges of implementing the most effective method of infectious disease prevention — immunization.

CHAIR

Miriam K. Laufer

University of Maryland, Baltimore, MD, United States

Chandy C. John

University of Minnesota, Minneapolis, United States

3:45 p.m.

DIARRHEAL DISEASE, GENETICS, GROWTH AND COGNITION: WHAT'S THE CONNECTION?

Richard L. Guerrant

University of Virginia, Charlottesville, VA, United States

4:15 p.m.

EFFECTS OF HELMINTH INFECTIONS ON NUTRITION AND DEVELOPMENT

Jennifer F. Friedman

Brown University, Providence, RI, United States

4:40 p.m.

DOES MALARIA AFFECT THE DEVELOPING BRAIN?

Chandy C. John

University of Minnesota, Minneapolis, MN, United States

5:05 p.m.

PERSISTENCE OF VACCINE-PREVENTABLE DISEASES IN PEDIATRIC POPULATIONS IN DEVELOPING COUNTRIES

Myron M. Levine

Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

Symposium 131

Japanese Encephalitis: The Challenges and Successes of Disease Control and Disability Assessment in the Developing World

Jefferson West

Wednesday, December 14 3:45 – 5:30 p.m.

This symposium will present and discuss recent advances and challenges in the control of JE in Asia. JE is the second vaccine preventable disease in the Flavivirus family after Yellow Fever. As we move towards vaccines for other Flaviviruses like Dengue and West Nile viruses, it is important to evaluate the lessons learned and barriers to access that have affected the uptake of JE. Topics will include an update on JE vaccine development, strategies for JE control, program impact, cost effectiveness of JE immunization, and the challenge of determining the disability following encephalitis.

CHAIR

Julie Jacobson

PATH, Seattle, WA, United States

Lyle Petersen

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

3:45 p.m.

STRATEGIES FOR THE CONTROL OF JE: A FIELD EVALUATION OF HIGH-RISK IMMUNIZATION IN ANDHRA PRADESH, INDIA

Rajshankar Ghosh

PATH, New Delhi, India

4:05 p.m.

JE VACCINES FOR ENDEMIC COUNTRIES: WHAT'S THE SOLUTION FOR DEVELOPING COUNTRIES

Mansour Yaich

PATH, Ferney, France

4:25 p.m.

MAKING SENSE OF DATA AT THE COUNTRY LEVEL: COST-EFFECTIVENESS ANALYSIS AND POLICY DECISIONS, EVIDENCE FROM FOUR ENDEMIC COUNTRIES

Chutima Suraratdecha

PATH, Seattle, WA, United States

4:45 p.m.

A SIMPLE TOOL FOR ASSESSING DISABILITY IN JAPANESE ENCEPHALITIS

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

5:05 p.m.

POST-ENCEPHALITIS DISABILITY DETERMINATION IN THE DEVELOPED AND DEVELOPING WORLD

James J. Sejvar

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

Symposium 133

RBx11160/OZ277 The First Synthetic Trioxolane Antimalarial

Georgetown West

Wednesday, December 14 3:45 – 5:30 p.m.

The symposium will present the data which was used to select the first synthetic peroxide antimalaria to go into clinical development and the Phase I first time in humans data. The plans for the clinical development of this new antimalarial will be presented.

CHAIR

J. C. Craft

Medicines for Malaria Venture, Geneva, Switzerland

Vijay K. Batra

Ranbaxy Laboratories Limited, New Delhi, India

3:45 p.m.

ACTIVITY PROFILE OF SYNTHETIC TRIOXOLANE OF ANTI-MALARIALS

Sergio Wittlin

Swiss Tropical Institute, Basel, Switzerland

4:15 p.m.

SELECTION OF A SYNTHETIC TRIOXOLANE CANDIDATE FOR DEVELOPMENT

William N. Charman

Monash University, Melbourne, Australia

4:40 p.m.

HUMAN SAFETY AND PHARMACOKINETICS OF RBX 11160/OZ 277

Tim Mant

Guy's Drug Research Unit, London, United Kingdom

5:05 p.m.

CLINICAL DEVELOPMENT STRATEGY FOR RBX 11160/OZ 277

Nilanjan Saha

Ranbaxy Laboratories Limited, New Delhi, India

Scientific Session 135

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

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Wednesday, December 14 3:45 – 5:30 p.m.

CHAIR

John H. Adams

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

Stuart J. Kahn

Infectious Disease Research Institute, Seattle, WA, United States

3:45 p.m.

1109

REDUCED TH1 CELL DEVELOPMENT FOLLOWING INFECTION WITH *LEISHMANIA MEXICANA*

Alice Hsu¹, Phillip Scott²

¹University of Pennsylvania, Philadelphia, PA; ²University of Pennsylvania, Philadelphia, PA

4 p.m.

1009

LIVE MICROFILARIAE OF *BRUGIA MALAYI* INDUCE CELL DEATH IN DENDRITIC CELLS THROUGH A TRAIL-DEPENDENT MECHANISM

Roshanak Tolouei Semnani¹, Françoise Meylan², Julia K. Gilden¹, Joseph Kubofcik¹, Richard Siegel², Thomas B. Nutman¹

¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²NIAMS, National Institutes of Health, Bethesda, MD, United States

4:15 p.m.

1010

A NATURALLY OCCURRING STRAIN OF *LEISHMANIA MAJOR* WHICH IS LACKING SIDE CHAIN GALACTOSE RESIDUES ON PHOSPHOGLYCANS REVEALS A ROLE FOR THE IMMUNE RESPONSE TO THE PRESENCE OF SUGARS

Charles Anderson¹, Steve M. Beverley², David L. Sacks¹

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States

4:30 p.m.

1011

LEISHMANIA SPECIES SELECTIVELY PRIME HUMAN DENDRITIC CELLS FOR INTERLEUKIN-12 PRODUCTION

Asha Jayakumar, Mary Ann McDowell

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

4:45 p.m.

1012

REGULATORY T CELL FUNCTION IN TANZANIAN INFANTS VARIES ACCORDING TO MATERNAL GRAVIDITY AND PLACENTAL MALARIA STATUS AT DELIVERY

Sanders K. Chai¹, Michal Fried¹, Theonest Mutabingwa², Patrick Duffy³

¹Mother Offspring Malaria Study, Seattle Biomedical Research Institute, Seattle, WA, United States, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

5 p.m.

1013

ROLE OF G α 12 SIGNALING DURING THE PROTECTIVE ADAPTIVE IMMUNE RESPONSE AGAINST *STRONGYLOIDES STERCORALIS* IN MICE

Udaikumar M. Padigel¹, James J. Lee², David Abraham¹

¹Thomas Jefferson University, Philadelphia, PA, United States, ²Mayo Clinic, Scottsdale, AZ, United States

5:15 p.m.

1014

NKT CELL FUNCTION DURING *TRYPANOSOMA CRUZI* INFECTION

Stuart J. Kahn, Malcolm S. Duthie, Maria F. Kahn, Maria White

Infectious Disease Research Institute, Seattle, WA, United States

Poster Session B Dismantle

Exhibit Hall

Wednesday, December 14 5:30 – 7 p.m.

Plenary Session IV

International Ballroom Center

Wednesday, December 14 6 – 7:30 p.m.

Presidential Address and Annual Business Meeting

CHAIR

George Hillyer

University of Puerto Rico School of Medicine, San Juan, Puerto Rico

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

6 p.m.

INTRODUCTION

Duane Gubler

Asia-Pacific Institute of Tropical Medicine, Honolulu, HI, United States

6:15 p.m.

VIROLOGY AND TROPICAL MEDICINE: THEN, NOW AND WHITHER

Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

6:45 p.m.

ASTMH ANNUAL BUSINESS MEETING

George Hillyer

University of Puerto Rico School of Medicine, San Juan, Puerto Rico

Thursday, December 15

Registration

Concourse Foyer

Thursday, December 15

7 – 10:30 a.m.

Symposium 136

Into the Woods: the Ecology and Natural History of Zoonotic Poxviruses

Monroe East

Thursday, December 15

8 – 9:45 a.m.

Orthopox viruses, within family Poxviridae, have a worldwide distribution and include multiple important pathogens of humans and other animals. Such viruses include variola (the agent that caused smallpox), monkeypox, vaccinia and cowpox viruses. Variola virus was historically responsible for more human fatalities than perhaps any other known viral pathogen. Despite this, the natural history, ecology, and evolutionary origins of most species within this genus are incompletely understood. Orthopox viruses have recently been implicated as sources of emerging human and livestock disease in Brazil and Africa, as (imported) agents of human and companion animal infections in the US, and as zoonotic components of rodent populations in Europe. This session will assemble an international panel of researchers who will present selected topics pertinent to bettering our understanding of the natural histories and ecologies of mammalian poxviruses.

CHAIR

Russell Regnery

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

Darin S. Carroll

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

8 a.m.

RABBITS AND POXVIRUSES: AN EVOLUTIONARY TALE

Thomas Yuill

University of Wisconsin, Madison, WI, United States

8:25 a.m.

COWPOX — A MODEL ZOOONOSIS

Malcolm Bennett

Faculty of Veterinary Science, University of Liverpool, Liverpool, United Kingdom

8:50 a.m.

GENETIC DIVERSITY OF VACCINIA VIRUS STRAINS ISOLATED FROM OUTBREAKS IN BRAZIL

Erna Gessien Kroon

Universidade Federal de Minas Gerais, Laboratório de Virus, Departamento de Microbiologia, Belo Horizonte, Brazil

9:15 a.m.

THE NATURAL HISTORY AND ECOLOGY OF ORTHOPOXVIRUSES

Darin S. Carroll

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

Symposium 137

The *Anopheles Gambiae* Genome: What Has It Taught So Far?

Monroe West

Thursday, December 15

8 – 9:45 a.m.

The complete *Anopheles gambiae* genome sequence was published in 2002. In this symposium we examine how the genome has been used by researchers to provide new insights into the biology of this important malaria vector and to explore new ways that it may be utilized in the future. Topics include the mosquito immune system, discovery of novel targets for the development of new insecticides, the genetics of insecticide resistance and insights into the basic evolutionary biology of this species.

CHAIR

Gregory C. Lanzaro

University of California, Davis, CA, United States

George Dimopoulos

Johns Hopkins University, Baltimore, United States

8 a.m.

POST GENOME SEQUENCE ANOPHELES GAMBIAE TRANSCRIPTOMIC ANALYSES

George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

8:30 a.m.

SYSTEMS BIOLOGY OF THE MOSQUITO INNATE IMMUNITY: NEGATIVE AND POSITIVE INTERACTIONS WITH THE MALARIA PARASITEGeorge K. Christophides
European Molecular Biology Lab, Heidelberg, Germany

8:55 a.m.

PROGRESS TOWARDS A SPECIFIC MICROARRAY FOR DETECTING INSECTICIDE RESISTANCE IN FIELD POPULATIONS OF MALARIA VECTORSHilary Ranson
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:20 a.m.

GENOMIC ISLANDS OF SPECIATION IN *ANOPHELES GAMBIAE*Thomas Turner
*University of California, Davis, CA, United States***Scientific Session 138****Flavivirus IV — West Nile Virus***Lincoln East*

Thursday, December 15 8 – 9:45 a.m.

CHAIR

Robert B. Tesh*University of Texas Medical Branch, Galveston, TX, United States***Ted C. Pierson***National Institutes of Health, Bethesda, MD, United States*

8 a.m.

1015

MORPHOLOGICAL AND CYTOPATHOLOGICAL CHANGES ASSOCIATED WITH WEST NILE VIRUS REPLICATION IN TARGET TISSUES OF A *CULEX* MOSQUITO VECTORYvette A. Girard, Julie Wen, Violet Han, Bradley S. Schneider, Vsevolod Popov, Stephen Higgs
University of Texas Medical Branch, Galveston, TX, United States

8:15 a.m.

1016

PERSISTENT WEST NILE VIRUS INFECTION IN THE GOLDEN HAMSTER (*MESOCRICETUS AURATUS*)Robert B. Tesh, Marina Siirin, Hilda Guzman, Amelia P. Travassos da Rosa, Xiaoyan Wu, Tao Duan, Hao Lei, Marcio R. Nunes, Shu-Yuan Xiao
University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

1017

A SINGLE NS3 AMINO ACID SUBSTITUTION MODULATES AVIAN VIRULENCE OF THE PATHOGENIC NORTH AMERICAN WEST NILE VIRAL STRAINAaron C. Brault¹, Stanley A. Langevin¹, Richard A. Bowen², Leslie Woods¹, Nicholas A. Panella³, Claire Y.-H. Huang³, Ann M. Powers³, Barry R. Miller³, Richard M. Kinney³
¹University of CA, Davis, Davis, CA, United States, ²Colorado State University, Fort Collins, CO, United States, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

8:45 a.m.

1018

TYPE I IFN PROTECTS AGAINST LETHAL WEST NILE VIRUS INFECTION THROUGH PKR AND RNASEL DEPENDENT AND INDEPENDENT MECHANISMSMelanie A. Samuel, Kevin Whitby, Anantha Marri, Michael S. Diamond
Washington University School of Medicine, St. Louis, MO, United States

9 a.m.

1019

THE MOLECULAR BASIS OF NEUTRALIZATION BY ANTIBODIES THAT RECOGNIZE DOMAINS I AND II OF WEST NILE VIRUS ENVELOPE PROTEINTheodore Oliphant¹, Grant Nybakken¹, Christopher Nelson¹, Beverley Chen¹, Michael Engle¹, Theodore Pierson², Daved Fremont¹, Michael Diamond¹
¹Washington University School of Medicine, St Louis, MO, United States, ²National Institute of Health, Bethesda, MD, United States

9:15 a.m.

1020

THE DEVELOPMENT OF RAPID AND QUANTITATIVE METHODS FOR MEASURING ANTIBODY-MEDIATED NEUTRALIZATION AND ENHANCEMENT OF WEST NILE VIRUS INFECTIONJessica L. Ess¹, Theodore L. Oliphant², Qing Xu¹, Daved H. Fremont³, Michael S. Diamond⁴, Ted C. Pierson¹
¹Viral Pathogenesis Section, Laboratory of Viral Diseases, National Institutes of Health, Bethesda, MD, United States, ²Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, MO, United States, ³Department of Pathology and Immunology, Washington University School of Medicine, St. Louis, MO, United States, ⁴Departments of Medicine, Molecular Microbiology, Pathology and Immunology, Washington University School of Medicine, St. Louis, MO, United States

9:30 a.m.

1021

WEST NILE VIRUS DIAGNOSTIC AND SURVEILLANCE NETWORK IN THE CARIBBEAN

Thierry Lefrancois¹, Kirk Douglas², Dane Coombs³, Nadin Thompson³, Reginal Thomas⁴, Sophie Molia¹, Nathalie Vachier¹, Bradley Blitvich⁵, Dominique Martinez¹

¹CIRAD, Petit Bourg, Guadeloupe, ²University of the West Indies, Bridgetown, Barbados, ³University of the West Indies, Port-of-Spain, Trinidad and Tobago, ⁴Veterinary Services, Roseau, Dominica, ⁵Colorado State University, Fort Collins, CO, United States

Scientific Session 139**Helminths I**

Lincoln West

Thursday, December 15

8 – 9:45 a.m.

CHAIR

Mark Eberhard

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

Peter M. Schantz

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

8 a.m.

1022

A TARGETED FUNCTIONAL GENOMIC ASSESSMENT OF LOCAL AND SYSTEMIC RESPONSES TO *TRICHURIS SUIS* INDICATES RESISTANCE OR SUSCEPTIBILITY TO ADULT WORM INFECTION

Joseph F. Urban, Ethiopia Beshah, Eudora Jones, Harry Dawson

United States Department of Agriculture, Beltsville Human Nutrition Research Center, Nutrient Requirements and Functions Laboratory, Beltsville, MD, United States

(ACMCIP Abstract)

8:15 a.m.

1023

ALTERNATIVELY ACTIVATED MACROPHAGES ACCUMULATE AT THE HOST: PARASITE INTERFACE AND CONTRIBUTE TO PROTECTION AGAINST A NEMATODE PARASITE

Robert M. Anthony¹, Joseph F. Urban², Farhang Alem³, Hossein Hamed³, Nico Van Rooijen⁴, William C. Gause³

¹USUHS, Bethesda, MD, United States, ²USDA, Beltsville, MD, United States, ³UMDNJ, Newark, NJ, United States, ⁴Vrije Universiteit, Amsterdam, Netherlands Antilles

(ACMCIP Abstract)

8:30 a.m.

1024

PROTEINS SECRETED BY *TRICHINELLA SPIRALIS* ALTER NUCLEOTIDE-INDUCED MIGRATION OF DENDRITIC CELLS

Sonja Kock, Kleoniki Gounaris

Imperial College London, London, United Kingdom

(ACMCIP Abstract)

8:45 a.m.

1025

IDENTIFICATION OF POTENTIAL MEDIATORS OF NURSE CELL TRANSFORMATION FROM *TRICHINELLA SPIRALIS*

David B. Guiliano, K. Gounaris, M. E. Selkirk

Imperial College London, London, United Kingdom

9 a.m.

1026

HOOKWORMS AND THE ALLERGIC RESPONSE TO HOUSE DUST MITES: CLINICAL AND IMMUNOLOGICAL ANALYSES

Prema Arasu, Rita C. Simoes, Hilary Jackson

North Carolina State University, Raleigh, NC, United States

(ACMCIP Abstract)

9:15 a.m.

1027

ABROGATION OF ALLERGIC INFLAMMATION BY *ASCARIS SUUM* PSEUDOCELOMIC FLUID (PCF)

Andrea M. Keane-Myers¹, Joseph Urban², Hillary Norris¹, Virgilio Bundoc¹, Agnieszka Boesen¹, Brittany Wetzel¹

¹National Institutes of Health, Rockville MD, MD, United States,

²USDA, Beltsville, MD, United States

9:30 a.m.

1028

INFLUENCE OF HELMINTH INFECTIONS ON THE CLINICAL COURSE AND IMMUNE RESPONSE OF CUTANEOUS LEISHMANIASIS PATIENTS INFECTED WITH *L. BRAZILIENSIS*

Seth O'Neal¹, Luiz Henrique Guimarães², Paulo Machado², Leda Alcantara³, Dan Morgan⁴, Sara Passos², Edgar Carvalho²

¹Oregon Health and Sciences University, Portland, OR, United States,

²Hospital Universitario Professor Edgard Santos, Salvador, Brazil,

³Universidade da Bahia, Salvador, Brazil, ⁴Weill Medical College of Cornell University, New York, NY, United States

(ACMCIP Abstract)

Scientific Session 140

Malaria — Vaccines I

Jefferson East

Thursday, December 15

8 – 9:45 a.m.

CHAIR

Martha Sedegah

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

Heng Wang

Peking Union Medical College, Beijing, China

8 a.m.

1029

WHEAT GERM CELL-FREE SYSTEM: A POWERFUL TOOL TO IDENTIFY NOVEL VACCINE CANDIDATES BASED ON THE *PLASMODIUM FALCIPARUM* GENOME DATABASE

Takafumi Tsuboi¹, Satoru Takeo¹, Hideyuki Iriko¹, Ling Jin¹, Eun-Taek Han¹, Osamu Kaneko², Jetsumon Sattabongkot³, Rachanee Udomsangpetch⁴, Tatsuya Sawasaki¹, Motomi Torii², Yaeta Endo¹

¹Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Ehime, Japan, ²Ehime University School of Medicine, Toon, Ehime, Japan, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Faculty of Science, Mahidol University, Bangkok, Thailand

8:15 a.m.

1030

DEVELOPMENT OF AN ADENOVIRUS-VECTORED VACCINE AGAINST MALARIA: EFFECTS OF PROMOTER STRENGTH ON IMMUNOGENICITY AND PROTECTIVE EFFICACY

Denise L. Doolan¹, Maureen E. Stefaniak¹, Duncan McVey², Keith Limbach¹, Damodar ETTYREDDY², Noelle B. Patterson¹, Fe Baraceros¹, Joseph J. Campo¹, C. Richter King², Joseph T. Bruder²

¹Naval Medical Research Center, Silver Spring, MD, United States,

²GenVec Inc, Gaithersburg, MD, United States

(ACMCIP Abstract)

8:30 a.m.

1031

IMPROVEMENT OF *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN-1 (PFEMP-1) VACCINE ANTIGENS USING DIRECTED MOLECULAR EVOLUTION

Volker Heinrichs¹, Emily Mundorff¹, Jack A. Lohre¹, Leslie L. West¹, Maria A. Kuznetsova¹, Tevis A. Howard², Moses M. Kortok², Kevin Marsh², Morris O. Makobongo³, Xia Liu³, Tracy A. LaClair³, Carole A. Long³, Robert G. Whalen¹, **Christopher P. Locher**¹

¹Maxygen, Inc., Redwood City, CA, United States, ²Kenya Medical Research Institute, Kilifi, Kenya, ³Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

8:45 a.m.

1032

A POLYEPITOPE MALARIA VACCINE RANDOMLY CONSTRUCTED BY EPITOPE SHUFFLING

Qiliang Cai, Gui-Ying Peng, Linyi Bu, Yahui Lin, Heng Wang
Peking Union Medical College, School of Basic Medicine, Beijing, China

(ACMCIP Abstract)

9 a.m.

1033

MSP1₄₂ BASED VACCINES: IMPROVING THE IMMUNOGENICITY OF ALHYDROGEL FORMULATIONS BY THE ADDITION OF CPG 7909

Sarimar Medina, Carole A. Long, Gelu Dobrescu, Joan A. Aebig, Andrew Orcutt, Hong Zhou, Samuel E. Moretz, Louis H. Miller, Allan Saul, Laura B. Martin

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

9:15 a.m.

1034

PROTECTION OF AOTUS NANCYMAI FROM *P. FALCIPARUM* BLOOD-STAGE INFECTIONS FOLLOWING IMMUNIZATION WITH A VACCINE FORMULATION CONTAINING MSP1-P42 AND MONTANIDE ISA51

David E. Clements¹, Teri Wong¹, Axel Lehrer¹, James T. Senda¹, Steven A. Ogata¹, Danielle N. DeSonier¹, David Waller¹, Tom Humphreys¹, George Hui², Tyrone Williams³, Douglas Nace³, JoAnn Sullivan³, William E. Collins³, John W. Barnwell³

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9:30 a.m.

1035

AIMING FOR SUSTAINED HIGH-LEVEL ANTIBODY RESPONSES_ FORMULATION OF PFS25 AND PVS25 TRANSMISSION BLOCKING VACCINES

Yimin Wu¹, Aaron P. Miles¹, Lynn Lambert¹, Olga Muratova¹, Andrew Orcutt¹, David Keister¹, Sheila Bello¹, Jetsumon Sattabongkot², Louis Miller¹, Carole Long¹, Allan Saul¹

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