

JITMM 2024 CONFIRMED SESSIONS

Opening Keynote Address

Unlocking the Key to Prevention and Control of Tropical Diseases: the Importance of Diagnostics

Prof. Emeritus Rosanna W Peeling

London School of Hygiene & Tropical Medicine, UK

Professor, University of Manitoba, Canada

Founding Director, International Diagnostics Centre Network

Closing Keynote Address

How to Accelerate Innovation for Fighting Tropical Diseases?

Dr. Osamu Kunii

CEO and Executive Director

Global Health Innovative Technology Fund (GHIT)

List of Sessions according to Areas or Research

Drugs & Vaccines

Novel Tools for Tropical Diseases

Vector Biology & Vector Control

Emerging Infectious Diseases

Gut Microbiome & Health

Knowledge in Tropical Medicine

BioBank for Tropical Diseases

Social & Behavioral Science for Tropical Diseases

Viral Diseases

Children Health

Biomedical & Health Informatics Programs

Others

Drugs & Vaccines

1. Advances in Melioidosis Research: Host-Pathogen Interactions, Vaccine Development, and Virulence Factor Characterization

Organizer: Prof. Narisara Chantratita

Chairpersons: Prof. Paul J. Brett and Dr. Christina Yek

Speakers:

1. Complex Interplay between Host, Pathogen and Environment in Melioidosis

Prof. Narisara Chantratita

Faculty of Tropical Medicine, Mahidol University

2. Melioidosis Subunit Vaccines: Lessons Learned and Future Directions

Prof. Paul J. Brett

University of Nevada, Reno School of Medicine, USA

3. Characterisation of Burkholderia thailandensis E264 Virulence Factors in Cellular Infection Assays

Dr. Mirko Himmel

University of Hamburg, Germany

4. Screening of Burkholderia pseudomallei Isolates for Physiological Relevant Virulence Gene Variations

Dr. Daria Dretvić

University of Hamburg, Germany

2. The role of the malaria vaccine R21/Matrix M in malaria control and elimination

Organizer: Asst. Prof. Borimas Hanboonkunupakarn

Chairpersons: Asst. Prof. Borimas Hanboonkunupakarn and Prof. Lorenz von Seidlein

Speakers:

1. The conception and development of R21/MatrixM

Dr. Adrian Hill

Jenner Institute / Oxford University

2. Combining R21/MM with antimalarial drugs (VAC081)

Asst. Prof. Borimas Hanboonkunupakarn

MORU and Faculty of Tropical Medicine, Mahidol University

3. Mass vaccination and drug administration in Bangladesh (MVDA VAC090)

Prof. Abul Faiz

DevCare Foundation

4. The scale up and roll out of R21/Matrix M

Dr. Harish Rao

Serum Institute India (SIPL)

3. Nanomedicine

Organizer and Chairpersons: Prof. Kesinee Chotivanich and Prof. Norased Nasongkla

Speakers:

1. Photocatalytic nano carrier for ferroptotic therapy of KRAS mutant colorectal cancer

Prof. Su-Geun Yang

Inha University College of Medicine, South Korea

2. Advancing Nanotherapeutics: The Role of Polymerization-Induced Self-Assembly (PISA) in Developing Drug Delivery Systems

Dr. Chalaisorn Thanapongpibul

Department of Biomedical Engineering, Faculty of Engineering, Mahidol University

3. Progress and potential of nanobubbles for ultrasound-mediated drug/gene delivery

Ms. Pinunta Nittayacharn

Department of Biomedical Engineering, Faculty of Engineering, Mahidol University

4. Multifunctional Micelles targeted malarial parasites for tracking and treatment

Dr. Wirat Assawapanumat

Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Mahidol University

4. Consortium efforts in mRNA Vaccine Development Against Plasmodium vivax Malaria

Organizer: Assoc. Prof. Wang Nguitragool

Chairpersons: Prof. Jetsumon Sattabongkot and Assoc. Prof. Wang Nguitragool

Speakers:

1. Discovery, Development, and Testing of mRNA vaccines at Mahidol Vivax Research Unit

Assoc. Prof. Wang Nguitragool and Dr. Nawapol Kunkeaw

Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Mahidol University

2. Immunoprofiling of Naturally Acquired Transmission-blocking Immunity against Plasmodium vivax

Ms. Rattanaporn Rojrung

Division of Malaria Research, Proteo-Science Center, Ehime University

3. mRNA Vaccine Development: Chula VRC and Partnership

Prof. Kiat Ruxrungtham

Chula Vaccine Research Center, Faculty of Medicine, Chulalongkorn University

4. Advancing Vaccine Innovation through Non-clinical Testing in Non-human Primates and the Role of NPRCT-CU

Prof. Suchinda Malaivijitn

National Primate Research Center of Thailand-Chulalongkorn University

5. Capability and capacity for mRNA-based vaccine production

Dr. Indra Rudiansyah

Bio Farma

5. Treatment of uncomplicated malaria in the Greater Mekong Subregion: should we continue with status quo or is there reason for concern?

Organizer: Dr. Chanaki Amaratunga

Chairpersons: Prof. Arjen Dondorp and Dr. Chanaki Amaratunga

Speakers:

1. When will novel antimalarials become available to communities who need them?

Dr. Didier Leroy

Medicines for Malaria Venture, Geneva, Switzerland

2. Should we use triple ACTs for malaria in the Greater Mekong Subregion?

Dr. Chanaki Amaratunga

Mahidol Oxford Tropical Medicine Research Unit

3. Do we know reliable molecular markers of lumefantrine resistance?

Mr. Michal Kucharski

Nanyang Technological University, Singapore

4. Is molecular surveillance for antimalarial resistance important in the Greater Mekong Subregion?

Dr. Varanya Wasakul

Mahidol Oxford Tropical Medicine Research Unit

6. Advances in pre-erythrocytic malaria prevention (Sponsored by Seattle Children's Research Institute)

Organizer: Prof. Noah Sather

Chairpersons: Prof. Noah Sather and Assoc. Prof. Ashley Vaughan

Speakers:

1. Advancing the *P. vivax* Pre-erythrocytic Vaccine Development Pipeline via In Vitro Liver-Stage Platforms and Controlled Human Challenge Models

Dr. Wanlapa Roobsoong

Faculty of Tropical Medicine, Mahidol University

2. Comparison of a fICSP/SA-1 malaria vaccine candidate with RTS,S/AS01 in two pre-clinical models

Dr. Eizo Takashima

Ehime University

3. Using *Plasmodium falciparum* experimental genetic crosses to create pan-African and pan-Continental hybrid parasites for whole parasite-based malaria vaccines

Dr. Lucia Pazzagli

Seattle Children's Research Institute

4. Transmission-blocking nanobodies targeting sexual-stage malaria antigen Pfs48/45

Ms. Frankie Lyons

Walter and Eliza Hall Institute of Medical Research, Australia

5. The impacts of chronic parasitemia on subsequent plasmodium infection and pathogenesis

Ms. Nhi Ho

University of Washington

7. Molecular genetic of Malaria

Organizer: Prof. Peter Preiser, Prof. Zbynek Bozdech, and Prof. Arjen Dondrop

Chairperson: Prof. Arjen Dondorp

Speakers:

1. Genomic and transcriptomic view of the evolution of artemisinin resistance from Southeast Asia to Sub-Saharan Africa

Prof. Zbynek Bozdech

Nanyang Technological University, Singapore

2. Cryptotype: hidden patterns in African Plasmodium falciparum

Assoc. Prof. Olivo Miotto

Mahidol Oxford Tropical Medicine Research Unit

3. Peeling the onion: how complex is the artemisinin resistance genetic trait of malaria parasites?

Mr. Michal Kucharski

Nanyang Technological University, Singapore

4. The PIR multigene family of Plasmodium parasites as key regulators of biological functions

Prof. Peter Preiser

Nanyang Technological University, Singapore

Novel Tools for Tropical Diseases

1. Immunological tools for better diagnosis and vaccine development

Organizer: Dr. Sadudee Chotirat

Chairpersons: Dr. Rhea Longley and Dr. Sadudee Chotirat

Speakers:

1. Immunology for improved surveillance of Plasmodium vivax malaria

Dr. Rhea Longley

Walter and Eliza Hall Institute of Medical Research, Australia

2. Predicting immunogenicity using human immune organoids

Dr. Lisa E. Wagar

University of California, Irvine, Irvine, CA, USA

3. Decoding immune responses to viral infections by single-cell omics

Dr. Waradon Sungnak

Faculty of Science, Mahidol University

2. Advancements in Extracellular Vesicle-Based Clinical Application for Human Diseases

Organizer and Chairperson: Dr. Wittaya Panvongsa

Speakers:

1. Integrative Multi-Omics Profiling of Cancer-Derived Extracellular Vesicles

Dr. Wittaya Suwakulsiri

The University of Sydney, Sydney, Australia

2. Exploring Extracellular Vesicles: New Horizons in Drug Delivery and Immune Modulation for Malaria

Asst. Prof. Ladawan Khowawisetsut

Department of Parasitology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

3. Translational Application of Extracellular Vesicles for Delivering Therapeutics in Neuropathic Lysosomal Storage Diseases

Asst. Prof. Kanit Bhukhai

Department of Physiology, Faculty of Science, Mahidol University, Bangkok, Thailand

3. Unveiling Novel Tools: Progress in Tropical Disease Diagnostics

Organizer: Assoc. Prof. Wang Nguitragool

Chairpersons: Assoc. Prof. Wang Nguitragool and Assoc. Prof. Naowarat Saralamba

Speakers:

1. Exploring Urinary Proteomics and Peptidomics Biomarkers for the Diagnosis of Mekong Schistosomiasis

Ms. Tipparat Thiangtrongjit

Department of Molecular Tropical Medicine, Faculty of Tropical Medicine, Mahidol University

2. Enhancing disease detection with new diagnostic tests for melioidosis and tuberculosis

Dr. Hasyanee Binmaeil and Prof. Narisara Chantratita

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University

3. Portable and Smart Diagnostics for Tropical Diseases: The Impact of Electrochemical Biosensors and Amplification Techniques

Assoc. Prof. Benjaporn Lertanantawong

Department of Biomedical Engineering, Faculty of Engineering, Mahidol University

4. Innovative Diagnostics: Paving the Way to Zero Malaria

Prof. Shigeyuki Kano

Department of Tropical Medicine and Malaria, Research Institute, National Center for Global Health and Medicine

Vector Biology & Vector Control

1. Innovation for vector controls

Organizer and Chairpersons: Assoc. Prof. Jiraporn Ruangsittichai and Asst. Prof. Thipruethai Phanitchat

Speakers:

1. Mass mosquito trapping for arboviral disease control and elimination

Dr. Bart Knols

K&S Holding BV

2. Integrating Street view and drone images for detection of Aedes breeding sites

Prof. Peter Haddawy

Faculty of Information and Communication Technology, Mahidol University

3. Innovations in mosquito trap design for dengue vector surveillance and control

Mr. Michael Weber

Biogents AG, Regensburg, Germany; Mahidol University, Faculty of ICT, Bangkok, Thailand; VP Mosquito Control, Bangkok, Thailand

Emerging Infectious Diseases

1. Innovative Strategies in Epidemic Preparedness for Emerging Infectious Diseases

Organizer: Prof. Narisara Chantratita

Chairpersons: Prof. Narisara Chantratita and Assoc. Prof. Tan Le Van

Speakers:

1. Regional collaboration for improved epidemic preparedness and response

Assoc. Prof. Tan Le Van

Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

2. Metagenomic sequencing in acute febrile illness in Cambodia: genomic characterization of endemic and emerging pathogens

Dr. Christina Yek

International Center of Excellence in Research Cambodia, NIH

3. Enabling single-cell multi-omic profiling for emerging infectious diseases in complex environments and field settings to support therapeutic development and evaluation

Assoc. Prof. David McIlwain

University of Nevada, Reno School of Medicine, USA

4. Serology in infectious disease investigations

Asst. Prof. Tan Chee Wah

Duke-NUS Medical School, National University of Singapore, Singapore

2. Strengthening the Early Warning and Outbreak Detection through event-based and syndromic surveillance and prediction models

Organizer: Assoc. Prof. Saranath Lawpoolsri Niyom

Chairpersons: Assoc. Prof. Saranath Lawpoolsri Niyom and Prof. Peter Haddawy

Speakers:

1. National Event-based Surveillance: Practices and Challenges

Dr. Pantila Taweewigyakarn

Department of Disease Control, Ministry of Public Health, Thailand

2. Emerging Trends and Key Challenges in Arbovirus Sero-Surveillance in Endemic Regions

Assoc. Prof. Kobporn Boonnak

Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University

3. Climate Impacts on Leptospirosis and Dengue Transmission in Thailand: A Machine Learning and Mathematical Modelling Approach

Assoc. Prof. Charin Modchang

Department of Physics, Faculty of Science, Mahidol University

4. Influenza-like-illness monitoring in primary schools

Asst. Prof. Supawat Chatchen

Department of Tropical Pediatrics, Faculty of Tropical Medicine, Mahidol University

3. Environmental monitoring for early disease prediction

Organizer: Assoc. Prof. Saranath Lawpoolsri Niyom

Chairpersons: Assoc. Prof. Saranath Lawpoolsri Niyom and Dr. Myat Su Yin

Speakers:

1. Using Container Counts from Google Street View Images to Predict Mosquito Population and Dengue

Prof. Peter Haddawy

Faculty of ICT, Mahidol University

2. Wastewater and Dust as Early Warning Systems for COVID-19 Outbreaks: Lessons from Thailand

Assoc. Prof. Charin Modchang

Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University

3. Wastewater Sampling Methods: Challenges for Long-Term Wastewater Surveillance

Asst. Prof. Thammanitchpol Denpetkul

Department of Social and Environmental Medicine, Faculty of Tropical Medicine,
Mahidol University

4. Predicting mosquito abundance rates from weather conditions

Assoc. Prof. Dominique Bicout

VetAgro Sup, TIMC, Univ. Grenoble Alpes & Faculty of ICT, Mahidol University

4. Emerging Threats and Established Pathogens: A Comprehensive Look at Thailand's Infectious Disease Landscape

Organizer: Prof. Narisara Chantratita

Chairpersons: Prof. Wasun Chantratita and Asst. Prof. Muthita Vanaporn

Speakers:

1. Thailand's Comprehensive Emergency Response Strategy: Integrating Preparedness for COVID-19, mPOX, H5N1, and Disease X

Prof. Wasun Chantratita

Center for Medical Genomics, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand

2. Genetic determinants of successful Burkholderia pseudomallei

Dr. Rathanin Seng

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

3. Genetic variation, structural analysis, and virulence implications of BimA and BimC in clinical isolates of Burkholderia pseudomallei in Thailand

Ms. Charlene Cagape

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

4. NK cell-mediated regulation of CD8 T cell response in melioidosis

Dr. Anucha Preechanukul

Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

5. Zoonotic diseases in Asia and the associated public health challenges

Organizer: Prof. Mallika Imwong

Chairpersons: Prof. Mallika Imwong and Prof. Takeshi Annoura

Speakers:

1. Plasmodium cynomolgi: An excellent model for live imaging and valuable clue to understanding relapse and asymptomatic mechanisms

Prof. Takeshi Annoura

Department of Parasitology, National Institute of Infectious Diseases (NIID) Tokyo, Japan

2. Limited Polymorphism in the Dihydrofolate Reductase (dhfr) and dihydropteroate synthase genes (dhps) of Plasmodium knowlesi isolate from Thailand

Miss Raweewan Sangsri

Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

3. One Health Approach to Helminthic Parasites: Public Health and Economic Challenges in the Asia-Pacific Region

Assoc. Prof. Urusa Thaenkham

Department of Protozoology, Faculty of Tropical Medicine, Mahidol University, Thailand

4. One Health implementation addressing zoonic diseases and associated public health challenges in SEA

Assoc. Prof. Saengduen Moonsom

Department of Protozoology, Faculty of Tropical Medicine, Mahidol University, Thailand

6. Genomics and Tropical Medicine: Exploring New Horizons of Discovery

Organizer: SEAMEO TropMed Network

Chairperson: Assoc. Prof. Pratap Singhasivanon

Invited Speakers:

1. One Health approach: Utilizing WGS for ESBL E.coli investigation in human, animal and environmental samples

Dr. Rohaidah Hashim

SEAMEO TROPMED Malaysia, Institute for Medical Research, Ministry of Health Malaysia

2. Human papillomavirus prevalence and genotype distribution in selected urban and rural communities in the Philippines

Dr. Sheriah Laine de Paz Silava

SEAMEO TROPED Philippines, College of Public Health University of the Philippines Manila

3. Harnessing the next-generation sequencing in malaria research

Dr. Parsakorn Tapaopong

SEAMEO TROPED Thailand, Faculty of Tropical Medicine, Mahidol University

4. Current Updates on Malaysian National Antifungal Resistance Surveillance of Clinical Yeast

Dr. Murnihayati Hassan

SEAMEO TROPED Malaysia, Institute for Medical Research, Ministry of Health Malaysia

5. Isolation and Characterization of *Leptospira* from Environmental Soil and Water in Selected Farming Communities in the Philippines

Prof. Sharon Yvette Angelina M. Villanueva

SEAMEO TROPED Philippines, College of Public Health University of the Philippines Manila

Gut Microbiome & Health

1. Sustainable food systems and gut health

Organizer and Chairperson: Assoc. Prof. Pattaneeya Prangthip

Speakers:

1. Sustainable food security and system

Prof. Emer. Kraisd Tontisirin

Honorary Advisory Board, Nutrition Association of Thailand, Senior advisor of Mahidol University's Institute of Nutrition

2. Future food and gut health

Assoc. Prof. Chalot Santivarangkna

Institute of Nutrition, Mahidol University

3. Sustainable food in Southeast Asia and gut microbiome profiles

Dr. Laleewan Tajasuwan

Faculty of Tropical Medicine, Mahidol University

2. Natural Nidality of Disease: New Perspectives on the Mechanisms of Infectious Diseases

Organizer: University of South Florida

Chairpersons: Prof. John Adams and Assoc. Prof. Natthida Sriboonvorakul

Speakers:

1. Natural Nidality of Disease: New Perspectives on the Mechanisms of Infectious Diseases

Prof. John Adams

Center for Global Health & infectious Diseases Research, University of South Florida

2. Gut microbiota in severe falciparum malaria

Prof. Arjen Dondorp

Mahidol Oxford Tropical Medicine Research Unit

3. Study the Gut Environment: From Bedside to Bench

Assoc. Prof. Thao (Tina) Ho

University of South Florida, Morsani College of Medicine

4. Intestinal injury and the gut microbiota in patients with Plasmodium falciparum malaria

Assoc. Prof. Natthida Sriboonvorakul

Faculty of Tropical Medicine, Mahidol University

Knowledge in Tropical Medicine

1. TropMed Tug-of-War #3

Organizer: Asst. Prof. Wirongrong Chierakul

Chairperson: Asst. Prof. Wirongrong Chierakul and Assoc. Prof. Prof. Jittima Dhitavat

Moderators:

1. **Assoc. Prof. Athit Phetrak**

Faculty of Tropical Medicine, Mahidol University

2. **Asst. Prof. Supachai Topanurak**

Faculty of Tropical Medicine, Mahidol University

3. **Asst. Prof. Santi Maneewatcharangsri**

Faculty of Tropical Medicine, Mahidol University

4. **Dr. Phimphan Pisutsan**

Faculty of Tropical Medicine, Mahidol University

BioBank for Tropical Diseases

1. **Establishing ParaCite: Biodiversity BioBank for Helminths - Current Initiative and Future Prospects (discussion panel)**

Organizer: Assoc. Prof. Urusa Thaenkham and Dr. Pongsakorn Wangkumhang

Chairpersons: Assoc. Prof. Dorn Watthanakulpanich and Assoc. Prof. Urusa Thaenkham

Speakers:

1. Overview and Future Aspects of the ParaCite Biobank

Assoc. Prof. Urusa Thaenkham

Department of Helminthology, Faculty of Tropical Medicine, Mahidol University

2. Establishment of the ParaCite platform by National BioBank of Thailand

Dr. Pongsakorn Wangkumhang

National Biobank of Thailand, National Science and Technology Development Agency

3. Current and future research applications for parasitic helminths

Dr. Sompob Saralamba

Mathematical and Economic MODelling (MAEMOD), Mahidol Oxford Tropical Medicine Research Unit

4. How biobank information supports research in parasitic helminths

Dr. Abigail Hui En Chan

Department of Helminthology, Faculty of Tropical Medicine, Mahidol University

5. What information on parasitic helminths is essential for the veterinary sector?

Assoc. Prof. Sivapong Sungpradit

Department of Pre-clinical and Applied Animal Science, Faculty of Veterinary Science, Mahidol University

6. What information on parasitic helminths is valuable for wildlife research?

Dr. Napat Ratnarathorn

Department of Biology, Faculty of Science, Mahidol University

7. Insights from policymakers: What information on parasitic helminths do they require?

Assoc. Prof. Saengduen Moonsom

Coordinator of Thailand One Health University Network (THOHUN) and staff from Department of Protozoology, Faculty of Tropical Medicine, Mahidol University

Social & Behavioral Science for Tropical Diseases

1. Social Determinants of Health: Risks, resilience and misinformation

Organizer: Mahidol Center for Health, Behavior and Society, Faculty of Tropical Medicine

Chairpersons: Assoc. Prof. Thomas Guadamuz and Ms. Worawalan

Waratworawan

Speakers:

1. Misinformation in the age of social media: Online scams, deep fakes, and digital resilience

Asst. Prof. Sin How Lim

Faculty of Medicine, University of Malaya

2. Social determinants of STI testing in Thailand

Mr. Nattharat Samoh

Mahidol Center for Health, Behavior and Society, Faculty of Tropical Medicine

3. Using qualitative methods to illuminate the MPOX epidemic: Challenges and lessons learned

Asst. Prof. Charlie Witzel

Institute for Global Health, University College London

4. Elucidating antimicrobial resistance in a marginalized urban community in Bangkok

Asst. Prof. Panoopat Poompruek

Faculty of Pharmacy, Silpakorn University

Viral Diseases

1. Post-COVID-19 Research for Controlling Emerging Viral Diseases

Organizer: Assoc. Prof. Pornsawan Leungwutiwong

Chairpersons: Assoc. Prof. Tomokazu Tamura and Dr. Khin Saw Myint

Speakers:

1. Discovery of mosquito-borne viruses and their applications

Prof. Yasuko Orba

Division of Molecular Pathobiology, International Institute for Zoonosis Control, Hokkaido University

2. Comprehensive virus detection in ticks leading the identifications of potential threat to One Health

Assoc. Prof. Keita Matsuno

Division of Molecular Pathobiology, International Institute for Zoonosis Control,
Hokkaido University

3. Novel reverse genetics of RNA viruses including arthropod viruses

Assoc. Prof. Tomokazu Tamura

Department of Microbiology and Immunology, Faculty of Medicine, Hokkaido
University

4. NGS in Action: Tracking Emerging Viral Threats in Indonesia

Dr. Khin Saw Myint

Exeins Health Initiative, Indonesia

2. Guarding our babies: innovative strategies in RSV prevention

Organizer: Department of Tropical Pediatrics

Chairpersons: Asst. Prof. Watcharee Arunsodsai and Asst. Prof. Salin Srinam

Speakers:

1. RSV vaccine maternal immunization

Dr. Mark Fletcher

Senior Director, Global Vaccines & Antivirals/Medical & Scientific Affairs, Pfizer

2. Burden of LRI and risk of RSV in Thailand

Asst. Prof. Piyarat Suntarattiwong

Queen Sirikit National Institute of Child Health

3. Innovative strategies in RSV prevention for our little babies

TBA from Sanofi

3. Recent advance in dengue

Organizer: Tropical Medicine Cluster, Chulalongkorn University

Chairpersons: Prof. Usa Thisyakorn and Prof. Terapong Tantawichien

Speakers:

1. Clinical tools for dengue severity prediction: current developments

Dr. Phu Nhuyen Trong Tran

Can Tho University, Vietnam

2. Dengue vaccine: an update

Prof. Terapong Tantawichien

Tropical Medicine Cluster, Chulalongkorn University

3. Dengue virus transmission risk in blood donation: any concern in endemic area

Prof. Nattachai Srisawat

Tropical Medicine Cluster, Chulalongkorn University

Children Health

1. The clinical viewpoint on the impact of endocrine-disrupting chemicals (EDCs) on children's health

Organizer: Prof. Vichit Supornsilchai (Chulalongkorn University)

Chairperson: Prof. Suttiapon Wacharasindhu

Speakers:

1. General information regarding EDCs and their impact on children's health

Prof. Vichit Supornsilchai

Division of Endocrinology, Department of Pediatric, Faculty of Medicine,
Chulalongkorn University

2. The research on EDCs in Thai Children

Dr. Nattakarn Numsriskulrat

Division of Endocrinology, Department of Pediatric, Faculty of Medicine,
Chulalongkorn University

3. A compelling case study of children exposed to particular EDC

Dr. Khomsak Srilanchakon

Division of Endocrinology, Department of Pediatric, Faculty of Medicine,
Chulalongkorn University

4. Urgent Need for Action: The Situation of Contamination Problems and
Phthalates Exposure in Thailand

Mr. Nuttapong Laemun

Department of Social and Environmental Medicine, Faculty of Tropical
Medicine, Mahidol University
Department of Disease Control, Ministry of Public Health

Biomedical and Health Informatics Programs

1. BHI student showcase

Organizer: Biomedical and Health Informatics programs (BHI), Department of Tropical Hygiene

Chairpersons: Assoc. Prof. Wirichada Pan-ngum and Assoc. Prof. Saranath Lawpoolsri Niyom

Speakers:

1. Prediction of patients' outcomes for home isolation management in COVID-19 patients using machine learning techniques

Dr. Auswin Rojanasumapong

Biomedical and Health Informatics Program (BHI), Department of Tropical Hygiene, Faculty of Tropical Medicine, Mahidol University

2. Personal health information privacy concerns of individuals in Myanmar

Ms. Khaing Zin Zin Htwe

Biomedical and Health Informatics Program (BHI), Department of Tropical Hygiene, Faculty of Tropical Medicine, Mahidol University

3. Current state and gaps in Thailand's mental health information system: A TOGAF enterprise architecture framework approach

Ms. Navinee Regnault

Biomedical and Health Informatics Program (BHI), Department of Tropical Hygiene, Faculty of Tropical Medicine, Mahidol University

4. Data-driven decisions on cross-border restrictions for disease control strategies using COVID-19 as a case study

Ms. Kansiri Apinantanakul

Biomedical and Health Informatics Program (BHI), Department of Tropical Hygiene, Faculty of Tropical Medicine, Mahidol University

Others

1. Recent advance in leishmaniasis research in Thailand

Organizer and Chairperson: Prof Padet Siriyasatien

Speakers:

1. Asymptomatic Leishmania infection among blood donors in a southern province of Thailand

Col. Dr. Phulerd Piyaraj

Department of Parasitology, Phramongkutklao College of Medicine

2. Complexity of trypanosomatids in Culicoides biting midges from leishmaniasis endemic areas of Thailand

Asst. Prof. Kanok Preativatanyou

Department of Parasitology, Faculty of Medicine, Chulalongkorn University

3. Genetic variation and geographic distribution of Leishmania spp. among Leishmania/HIV co-infection in Thailand

Lt. Col. Dr. Toon Ruang-areerate

Department of Parasitology, Phramongkutklao College of Medicine

4. Development of lateral flow immunoassay for detection of Leishmania martiniquensis and Leishmania orientalis in asymptomatic patients

Ms. Namfon Nawattanapaibool

Department of Microbiology, Faculty of Science, Mahidol University

2. UV 222 effective and safe disinfection for everyday life

Organizer: Assoc. Prof. Pongrama Ramasoota

Chairpersons: Prof. Christian Holm and Assoc. Prof. Pongrama Ramasoota

Speakers:

1. The development of UV222 for the environmental disinfection and safety used by UVMedico, Denmark

Dr. Peter Johansen

UVMedico, AB, Denmark

2. Effect of UV222 against Bacterial Pathogens and Mosquitoes in Thailand

Assoc. Prof. Pongrama Ramasoota

Department of Social and Environmental Medicine, Faculty of Tropical Medicine, Mahidol University

3. Application of UV222 for the disinfection in the Hospital and Pharmaceutical industries

Prof. Christian Holm

Aarhus University, Denmark

3. WRAIR-AFRIMS: A Sixty-Year Legacy of US-Thai Partnership in Advancing Global Health and Defense Health Security
Organizer: WRAIR-AFRIMS

Chairperson: COL Matthew A. Levine

Speakers:

1. WRAIR-AFRIMS: A Sixty-Year Legacy of Defense and Global Health Security Cooperation

COL Matthew A. Levine

2. Understanding the Role of Bacterial Wastewater Surveillance in Global Health Security

MAJ Daniel M Boudreaux

3. Lessons Learned from Family Cohort Study in Rural Thailand; Building Research into Public Health Implementation

Dr. Darunee Buddhari

4. AFRIMS Retrovirology; 20 Years of Strategy and Partnership in HIV Prevention Research

COL Eric Garges

5. Product Development for the Prevention of Vector-Borne Disease at WRAIR-AFRIMS

MAJ Erica Lindroth

6. WRAIR-AFRIMS: One-Health Initiatives and Global Health Engagement
LTC Erin Ball

7. Surveillance of the Disappearance of the HRP2 and HRP3 Genes of
Plasmodium Falciparum in Military and Civilians in Cambodia
CPT Min Kramyoo