

# JITMM2017



## Joint International Tropical Medicine Meeting 2017 (JITMM 2017)

### Tropical Medicine 4.0: Effective *Collaboration* for an Impact on Global Health

6 - 8 December 2017

*Amari Watergate, Bangkok, Thailand*

## Program Book

#### Organizers

- \* Faculty of Tropical Medicine, Mahidol University
- \* SEAMEO TROPMED Network
- \* TROPMED Alumni Association
- \* The Parasitology and Tropical Medicine Association of Thailand



#### Co-organizers

- \* Department of Disease Control, Ministry of Public Health (MOPH)
- \* Mahidol - Oxford Tropical Medicine Research Unit (MORU)
- \* Thailand Center of Excellence for Life Sciences



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Department of Disease Control



# JITMM2017

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### Acknowledgements

The Organizers of JITMM2017 express sincere appreciation and grateful thanks to all those who have contributed their kind support and cooperation in facilitating this Meeting

### Contributors:

- \* Department of Disease Control, Ministry of Public Health (MOPH)
- \* Mahidol - Oxford Tropical Medicine Research Unit (MORU)
- \* Thailand Center of Excellence for Life Sciences (Public Organization), Ministry of Science and Technology
- \* Wellcome Trust
- \* Thailand Convention & Exhibition Bureau (TCEB)
- \* Royal Society of Tropical Medicine and Hygiene
- \* SEAMEO TROPMED Network
- \* Center for Infectious Disease Research, USA
- \* Vysnova Partners, Inc.
- \* Biogents AG
- \* Hausen Bernstein Co.,Ltd.
- \* Qiagen Thailand
- \* Bio-Rad Laboratories Ltd.
- \* Cocksec Chemical Industry Co.,Ltd.
- \* Kaketsuken (The Chemo-Sero-Therapeutic Research Institute)
- \* Meditop Co.,Ltd.
- \* Siam Commercial Bank PCL.
- \* The Government Pharmaceutical Organization



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# JITMM2017

Wellcome Trust, FTM-MU, and SEAMEO TropMed Network supported Travel Awards

The JITMM2017 Travel Awards, supported by Wellcome Trust, Faculty of Tropical Medicine, Mahidol University, and SEAMEO TropMed Network allow promising early career and LMIC researchers to participate in Southeast Asia's largest Tropical Medicine conference. The 34 JITMM2017 Travel Awards winners are:



**Alex Eapen**  
ICMR - National Institute of Malaria  
Research Chennai, India



**Anand Shetty Balakrishnan**  
Madurai Kamaraj University, India



**Anh Nguyen To**  
Oxford University Clinical  
Research Unit, Vietnam



**Araniy Fadhilah**  
Eijkman Institute for Molecular Biology,  
Indonesia



**Asmin Sha**  
Al-Iqbal Hospital, India



**Aung Ye Naung Win**  
Department of Medical Research,  
Myanmar



**Babu Ramanathan**  
Sunway University, Malaysia



**Bhakti Sadhu**  
Coorg Institute of Dental Sciences,  
India



**Chairin Nisa Ma'Roef**  
Eijkman Institute for Molecular Biology,  
Indonesia



**Dexton Johns**  
Kerala University of Health Science,  
India



**Erandi Munasinghe**  
University of Kelaniya, Sri Lanka



**Fabian Saenz**  
Pontificia Universidad Catolica del  
Ecuador, Quito, Ecuador



**Hellen Barsosio**  
KEMRI-Wellcome Trust, Kenya



**Jontari Hutagalung**  
Universitas Gadjah Mada, Indonesia



**Kyaw Soe Htun**  
Defense Services Medical Research  
Centre, Myanmar



**MariaVinna Crisostomo**  
Southern Philippines Medical Center,  
Philippines

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**Marjo Mendoza**  
University of the Philippines, Diliman,  
Quezon City, Philippines



**Mohd Syis Bin Zulkipli**  
University of Malaya, Malaysia



**Nguyen Thi Nhu Ha**  
National Hospital for Tropical Diseases,  
Vietnam



**Nhu Binh Do**  
Vietnam Military Medical University,  
Vietnam



**Nhu Le Nguyen Truc**  
Oxford University Clinical Research  
Unit, Vietnam



**Ninh Tran**  
National Hospital of Tropical Diseases,  
Vietnam



**Nisha Rijal**  
National Public Health Laboratory,  
Nepal



**Nyein Ko Hein**  
Defense Services Medical Research  
Centre, Myanmar



**Nyein Su Aye**  
Department of Medical Research,  
Myanmar



**Palpasa Kansakar**  
Soc. Health Security Devt. Committee,  
Nepal



**Pooja Shetty**  
A.J.Institute of Dental Sciences,  
Mangalore



**Prabhat Ranjan**  
Sanjay Gandhi  
Postgraduate Institute of Medical  
Sciences, India



**Ram Suresh Bharti**  
National Institute of Malaria Research,  
India



**Rosnani Hanim Mohd Hussain**  
Universiti Teknologi MARA, Malaysia



**Thi Dieu Ngan Ta**  
National Hospital of Tropical Diseases,  
Vietnam



**Savitha Chellappan**  
ICMR-National Institute of Traditional  
Medicine, India

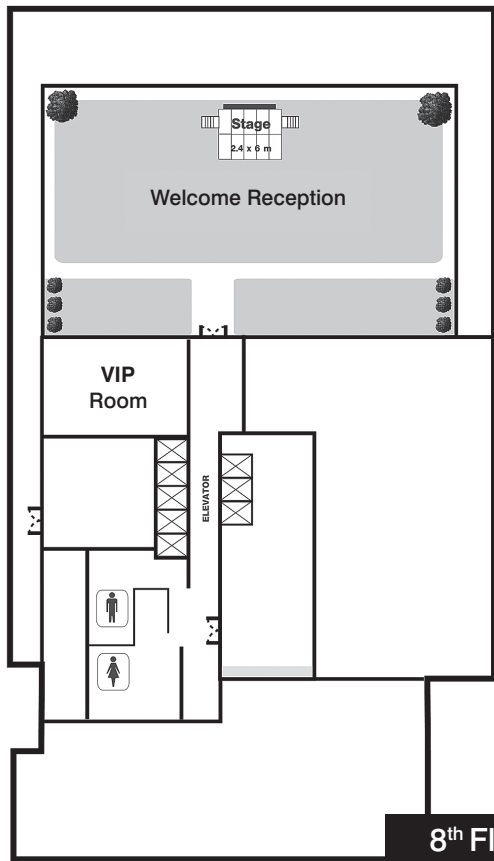


**Zanda Bochkaeva**  
University of Dodoma,  
Tanzania

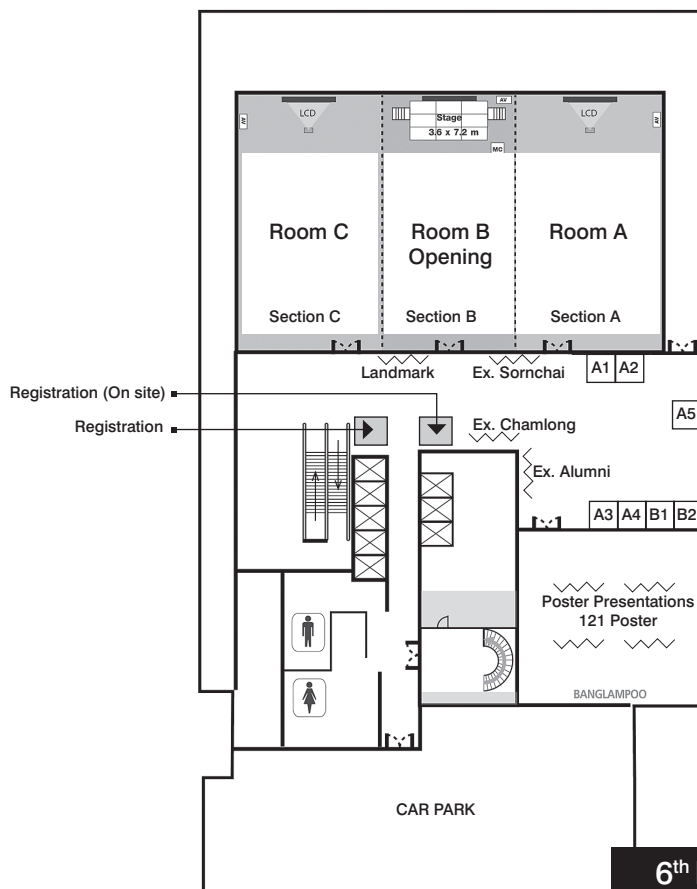
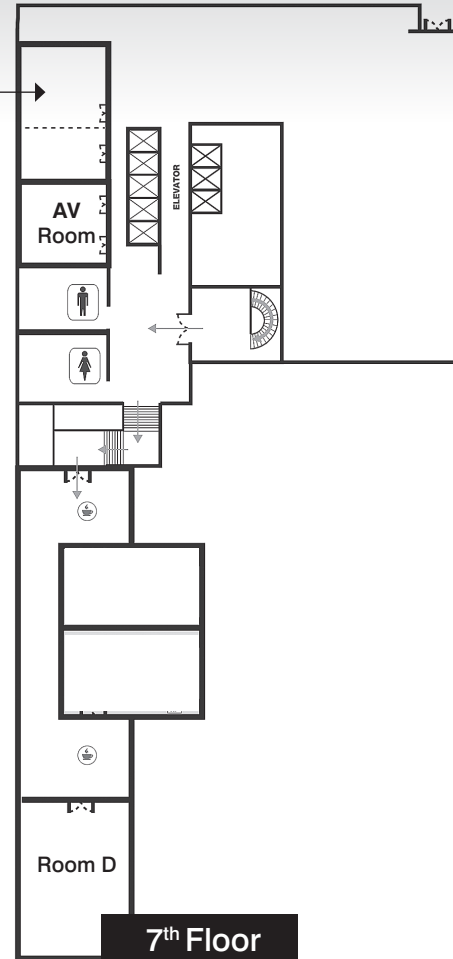


**Zaw Thein Htet**  
Defence Services Medical Research  
Centre, Myanmar

# JITMM2017



Small Group Meeting Room



- A1 Biogents AG
- A2 Hausen Bernstein Co.,Ltd.
- A3 Ministry of Science and Technology
- A4 Qiagen Thailand
- A5 Bio-Rad Laboratories Ltd.
- B1 Meditop Co.,Ltd.
- B2 Royal Society of Tropical Medicine and Hygiene 1

**Scientific Program** Joint International Tropical Medicine Meeting 2017

Tuesday 5 December 2017		Wednesday 6 December 2017				Thursday 7 December 2017				Friday 8 December 2017			
8:30 - 9:00	Registration	Registration & Poster set up				Registration & Poster set up				Registration & Poster set up			
9:00 - 9:30	<b>Welcome and Introductions Pre-Meeting Course</b> "CRISPR-Cas9 Genome Editing Technology in <i>Plasmodium falciparum</i> " at Faculty of Tropical Medicine, Mahidol University  Trainer: Dr. Marcus Lee (The Sanger Institute)  Introduction to CRISPR (theory)	<b>Watergate Ballroom, 6<sup>th</sup> Floor</b>  <b>Opening Ceremony</b> by Organizers and Co-organizers <b>TROPiMED Alumni Award Presentation</b>  <b>S1 The 23<sup>rd</sup> Chamlong-Tranakhit Harinasuta Lecture</b> <b>"Collaboration and innovation at scale: MC's experiences with upSCALE and SMC"</b> <b>Dr. James Tibendarana, Global Technical Director for Malaria Consortium</b>				<b>Room A</b> S14 The Challenge of Rabies Elimination: How to get success? (Sponsored by MOPH)  <b>Room B</b> S15 Update on Malaria Research (Sponsored by CIDR)  <b>Room C</b> S16 Antibodies Against Arboviruses  <b>Room D</b> S17 Research update on Mekong Schistosomiasis (PIAT)				<b>Room A</b> S30 Extending the Frontiers of Vector Control  <b>Room B</b> S31 Environmental Health, Toxicology, Biotechnology  <b>Room C</b> S32 Drug resistance (Sponsored by: MOBU and Royal Society of Tropical Medicine and Hygiene)			
9:30 - 10:00		<b>Coffee break</b> <b>S1</b> From Single Cell to Population: Impact of Whole-Genome Technology on Tropical Medicine  <b>S2</b> Trans-national Research and Promoting Cross-sector Collaboration and Socio-ecological Systems and Resilience Approach to Vector-borne and Parasitic Diseases  <b>S3</b> Young Investigator Presentation Award  <b>S4</b> Free Paper I Travel Award Presentations  <b>S5</b> Free Paper I Travel Award Presentations				<b>Coffee break</b> <b>Room A</b> S18 MXDR-TB in Thailand: The Real Threat? (Sponsored by MOPH)  <b>Room B</b> S19 Ethical issues in human subject study: a view from four sides  <b>Room C</b> S20 Current Research on Microbial Infections in the Tropics  <b>Room D</b> S21 Challenges: Academic-Industry Entrepreneurship in Drug and Vaccine Development				<b>Coffee break</b> <b>S33</b> Somchai Looareesuwan Medal "The Induced Blood Stage Malaria Model: A Tool to Accelerate the Development of New Interventions Against Malaria" Prof. James S. McCarthy 11.45 - 12.30 Presentation of Awards/and Closing remarks			
10:30 - 11:00	<b>Coffee break</b>	<b>Coffee break</b> <b>Lunch</b>				<b>Coffee break</b> <b>Lunch/Room C:</b> Grantsmanship: the art of obtaining grant for research				<b>Coffee break</b> <b>Lunch</b>			
11:00 - 11:30	Designing gRNAs (Benching on computer)	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development				<b>Watergate Ballroom</b>			
11:30 - 12:00	Practical: phosphorylation and annealing of gRNAs	<b>Room A</b> S10 Antimicrobial Resistance  <b>Room B</b> S11 Free Paper II Tropical Medicine I  <b>Room C</b> S12 Surveillance-response Approaches for Effective Elimination and Prevention of Malaria (Sponsored by Vysnova Partners, Inc)  <b>Room D</b> S13 Turbo Talk II				<b>Room A</b> S26 Helminthology  <b>Room B</b> S27 Antimalarial Drug Discovery and Resistance  <b>Room C</b> S28 Free Paper III Tropical Medicine II  <b>Room D</b> S29 Free Paper IV Tropical Medicine III							
12:00 - 13:00	<b>Lunch</b>	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
13:00 - 13:30	Practical: purify out vector (spin column) Ligate annealed gRNAs, transform and plate?	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
13:30 - 14:30	Donor design (theory+benchling)	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
14:30 - 15:00	Q&A on donor design	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
15:00 - 15:30	<b>Coffee break</b>	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
15:30 - 16:00	Genotyping exercises	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
16:00 - 16:30	Genotyping answers / discussion	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
16:30-17:00	Final Q&A, hand out plasmid reagents	<b>Room A</b> S6 Malaria Elimination Towards Eradication in 21st Century  <b>Room B</b> S7 Malaria Elimination Towards Eradication in 21st Century  <b>Room C</b> S8 Investigating Neglected Infectious Diseases at the Interface Between Ecology and Anthropology  <b>Room D</b> S9 Turbo Talk I				<b>Room A</b> S22 Involving the Community is Key to Effective HIV Prevention Research Experience  <b>Room B</b> S23 Progress Towards Developing Vaccines Against <i>Plasmodium vivax</i>  <b>Room C</b> S24 Research Data Sharing Controversy  <b>Room D</b> S25 Red Queen's Race: Malaria Drug Resistance vs. Drug Development							
17:45 - 20:00		<b>Welcome Reception, 8<sup>th</sup> Floor</b>				<b>Welcome Reception, 8<sup>th</sup> Floor</b>				<b>Welcome Reception, 8<sup>th</sup> Floor</b>			

# JITMM2017

**Wednesday 6 December 2017**

9.00-9.30

Watergate Ballroom

## Opening Session

### ▲ Opening Ceremony By Organizers and Co-organizers

\* **Report by**

**Assoc. Prof. Dr. Pratap Singhasivanon**

Chairman, Organizing Committee



\* **Welcome Address**

**Dr. Suwannachai Wattanayingcharoenchai**

Director-General of the Department of Disease Control



\* **Welcome Address**

**Prof. Nicholas Day**

Director, Mahidol-Oxford Tropical Medicine Research Unit (MORU)



\* **Opening Remarks**

**Assoc. Prof. Soranit Siltharm**

Permanent Secretary, Ministry of Science and Technology, Thailand



\* **TROPMED Alumni Award Presentation**

Presented by **Assoc. Prof. Supranee Changbumrung**



**Award Recipient:**

**Prof. Emeritus Arunee Sabchareon**

Consultant, Faculty of Tropical Medicine



Prof. Emeritus Arunee Sabchareon

## Collaboration and innovation at scale: MC's experiences with upSCALE and SMC

Chairperson:



Pratap Singhasivanon



**Keynote Speaker**

**Dr James Tibenderana**

Global Technical Director, Malaria Consortium

Especially as countries around the world are aspiring towards Universal Health Coverage and reaching the SDGs, looking at effective models of partnership is key. Malaria Consortium believes that effective collaboration and innovation are important in delivering sustained programs that support different health and related objectives.

As a sub-goal of SDG 3, UHC has the potential to unify and bring harmony to a fragmented health agenda, and ensure that adequate attention is paid to equity and human rights. At the same time, to achieve the sub-goals for malaria, NTDs and child health, continued political commitment is needed to address the underlying social determinants of poor health and diseases.

Tenets of such partnership and collaboration include: a strong, efficient, well-run health system; mechanisms that bring the government, private sector and international partners together; model of financing health services; access to essential medicines and innovative technologies; and a sufficient number of well-trained and motivated health workers at all levels.

*Dr. Tibenderana is a malaria and public health expert, with over 20 years of experience in the fields of epidemiology, infectious and tropical diseases and health system strengthening. James joined Malaria Consortium in 2005. Prior to becoming Technical Director, he has been both Development Director and Africa Technical Director for the organisation.*

# JITMM2017

Wednesday 6 December 2017

10.45-12.15

Room A

## S2: From Single Cell to Population: Impact of Whole-Genome Technology on Tropical Medicine

### Chairpersons:



Chamnarn Apiwathanasorn



Arporn Wangwiwatsin

### Invited Speakers



▼ GWAS analysis of malaria drug resistance..... p. 5

#### Olivo Miotto

Nuffield Department of Medicine, University of Oxford



▼ Genetics of antimalarial drug resistance in *Plasmodium* crosses..... p. 6

#### Thomas E. Wellems

National Institute of Allergy and Infectious Diseases



▼ Single cell RNA-seq to show how parasite sexual determination ..... p. 7

#### Oliver Billker

Wellcome Trust Sanger Institute

# JITMM2017

Wednesday 6 December 2017

10.45-12.15

Room B

## S3: Young Investigator Presentation Award

### Chairpersons:



Saranath Lawpoolsri Niyom



Wirichada Pan-Ngum

### Speakers



- ▼ An integrated analysis tool for analyzing hybridization intensities and genotypes using new-generation population-optimized human arrays..... p. 9

**Mei-Chu Huang**

Academia Sinica, Taipei



- ▼ Protein Profiles of Female Salivary Glands of Three Human-biting Black Flies (*Diptera: Simuliidae*) in Thailand ..... p. 10

**Chayanit Hempolchom**

Chiang Mai University



- ▼ Anti-protozoan study of a medicinal herb, *Bidens pilosa* ..... p. 11

**Meng-Ting Yang**

Academia Sinica, Taipei



- ▼ Daily and seasonal dynamics of the house fly *Musca domestica L.* as revealed by semi-automatic trap collections..... p. 12

**Tunwadee Klongklaew**

Chiang Mai University



- ▼ LATS2 gene as a modulator in the oxidative stress response induced by phytoagent deoxyelephantopin derivatives in breast cancer cells..... p. 13

**Yu-Ting Cheng**

Academia Sinica, Taipei

# JITMM2017

Wednesday 6 December 2017

10.45-12.15

Room C

## S4: Trans-national research and promoting cross-sector collaboration and socio-ecological systems and resilience approach to vector-borne and parasitic diseases

Chairperson:



Hans Overgaard

### Invited Speakers



- ▼ Progress and Prospects for Application of Social-ecological Systems Approach for Vector Borne Diseases ..... p. 15

**Bruce Wilcox**



- ▼ Social-ecological Systems approach to residual malaria transmission in the Greater Mekong Sub-region ..... p. 16

**Jeffrey Hii**

Malaria Consortium



- ▼ Prospects and challenges towards sustainable liver fluke control..... p. 17

**Pierre Echaubard**

Global Health Asia Institute



- ▼ The Reality of Using Transdisciplinarity and Ecosystem Approaches for Vector Borne Diseases ..... p. 18

**Jennifer Steele**

Infectious Disease Epidemiologist



- ▼ Insecticide resistance mapping of *Anopheles* and *Aedes* species and opportunities for integrated vector management ..... p. 19

**Melinda Hadi**

Vestergaard Frandsen (EA) Limited, Nairobi, Kenya

# JITMM2017

Wednesday 6 December 2017

10.45-12.15

Room D

## S5: Free Paper I: Travel Awardees' Presentations

### Chairpersons:



Jaranit Kaewkungwal



Vicente Belizario

### Speakers



- ▼ Viral Etiology of Community-Acquired Sepsis in Vietnam: Unraveling the Unknown by Next-generation Sequencing Analysis ..... p. 21

**Anh Nguyen To**

Oxford University Clinical Research Unit, Vietnam



- ▼ Migration process, vulnerability and information and communication channels among migrant workers at remote sites in the context of malaria elimination: a qualitative strand ..... p. 22

**Aung Ye Naung Win**

Department of Medical Research, Myanmar



- ▼ The Unexpected Stability of Malaria Elimination: Research Needs The Feasibility of Malaria Elimination In Eastern Indonesia ..... p. 23

**Jontari Hutagalung**

Universitas Gadjah Mada, Indonesia



- ▼ Therapeutic potential of lymphatic endothelial progenitors as alternative treatment for filarial lymphedema ..... p. 24

**Anand Setty Balakrishnan**

Madurai Kamaraj University, Madurai, India



- ▼ Changing epidemiology and antimicrobial resistance in *Vibrio cholerae*: findings of a decade from national AMR surveillance ..... p. 25

**Nisha Rijal**

National Public Health Laboratory, Nepal



- ▼ Development of Monoclonal Antibodies Against Dengue NS1 Peptides ..... p. 26

**Erandi Munasinghe**

University of Kelaniya, Sri Lanka



- ▼ Viral Etiology of Acute Febrile Diseases from Archived Specimens Collected between 2012 to 2017 in Indonesia ..... p. 27

**Chairin Nisa Ma'Roef**

Eijkman Institute for Molecular Biology, Indonesia

# JITMM2017

Wednesday 6 December 2017

13.45-15.15

Room A

## S6: Melioidosis Updates

### Chairpersons:



Yuvadee Mahakunkijcharoen



Pornpan Pumirat

### Invited Speakers



- ▼ Evolution of *Burkholderia pseudomallei* and its disease dynamics..... p. 29

**Claire Chewapreecha**

King Mongkut's University of Technology Thonburi



- ▼ Predicted global distribution of *Burkholderia pseudomallei* and burden of melioidosis..... p. 30

**Direk Limmathurotsakul**

Faculty of Tropical Medicine, Mahidol University



- ▼ Host genetic variation: a tool to illuminate the host response in melioidosis ..... p. 31

**T. Eoin West**

University of Washington



- ▼ Why are people with diabetes so susceptible to melioidosis?..... p. 32

**Susie Dunachie**

Nuffield Department of Medicine, University of Oxford

# JITMM2017

Wednesday 6 December 2017

13.45-15.15

Room B

## S7: Malaria elimination towards Eradication in 21<sup>st</sup> Century

Chairperson:



Sasithon Pukrittayakamee

### Invited Speakers



- ▼ Ivermectin mass drug administration for malaria elimination in the Greater Mekong Subregion..... p. 34

**Kevin C. Kobylinski**

Armed Forces Research Institute of Medical Sciences



- ▼ Faculty of Tropical Medicine Mahidol University collaborative projects on the malaria elimination/eradication..... p. 35

**Borimas Hanboonkunupakarn**

Faculty of Tropical Medicine Mahidol University



- ▼ Transmission blocking activity of Ivermectin on artemisinin resistant parasites ..... p. 36

**Kesine Chotivanich**

Faculty of Tropical Medicine Mahidol University



- ▼ New genetic approaches to identify antimalarial targets and measure parasite fitness..... p. 37

**Marcus Lee**

Wellcome Trust Sanger Institute

# JITMM2017

Wednesday 6 December 2017

13.45-15.15

Room C

## S8: Investigating Neglected Infectious Diseases at the Interface between Ecology and Anthropology

### Chairpersons:



Serge Morand



Paron Dekumyoy

### Invited Speakers



▼ Helminths in pigs: the impact of *Taenia solium* and *Taenia asiatica* in Asia..... p. 39

**Akira Ito**

Asahikawa Medical University



▼ Life of a pig among the Karen: from raising to sacrifice ..... p. 40

**Abigael Pesses**

IRASEC



▼ Wild Rodents as Research Model for Studying Ecology of Infectious Pathogens in Southeast Asia ..... p. 41

**Kittipong Chaisiri**

Faculty of Tropical Medicine, Mahidol University



▼ Health Risks and Rodent Bushmeat Consumption In Central Thailand: Preliminary Results And Emerging Questions..... p. 42

**Michel de Garine Wichtitsky**

Kasetsart University



▼ From paratuberculosis to sacrifice; symbiosis complex in hunting and livestock farming .. p. 43

**Stephane Rennesson**

IRASEC

# JITMM2017

Wednesday 6 December 2017

13.45-15.15

Room D

## S9: Turbo Talk I

### Chairpersons:



John Adams



Srivicha Krudsood

### Speakers



- ▼ Biology of Zika Virus Infection in Human Skin Cells ..... (Poster p. 20)

**Rodolphe Hamel**

IRD, Faculty of Tropical Medicine, Mahidol University



- ▼ Cross-neutralizing antibodies in Hand, Foot and Mouth Disease patients ..... (Poster p. 23)

**Nguyet Lam**

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



- ▼ Assessment of factors associated with dengue mortality in Fiji, 2014: A case control study ..... (Poster p. 30)

**Aneley Getahun**

Fiji National University



- ▼ Dengue and Zika Viral Infections in Patients with Acute Febrile Illness in Northeastern Thailand ..... (Poster p. 9)

**Sirinart Aromseree**

Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand



- ▼ The seroprevalence of neutralizing antibody against dengue virus in healthcare workers ..... (Poster p. 24)

**Warunee Punpanich Vandepitte**

Queen Sirikit National Institute of Child Health, Bangkok, College of Medicine, Rangsit University



- ▼ Antiviral activity of bismuth derived chemical compound against dengue virus serotype 2 ..... (Poster p. 10)

**Babu Ramanathan**

Department of Biological Sciences, Sunway University, Malaysia



- ▼ Evolution of Coxsackievirus A6: an emerging pathogen of hand, foot and mouth disease ..... (Poster p. 11)

**Nhu Le Nguyen Truc**

Oxford University Clinical Research Unit

**S9: Turbo Talk I**



▼ Development Of The Cost And Time Saving Zika Virus Detection Method By Real Time Rt-Pcr In Response For 2016 Outbreak In Thailand ..... (Poster p. 21)

**Pattara Wongjaroen**  
Ministry of Public Health, Thailand



▼ Immunological and entomological indices to evaluate the risk of dengue transmission in northeastern Thailand ..... (Poster p. 15)

**Benedicte Fustec**  
Universite de Montpellier, France



▼ Dengue seasonal variation and prediction model in Khon Kaen Province, Thailand. .... (Poster p. 16)

**Thipruethai Phanitchat**  
Khon Kaen University, Khon Kaen, Thailand



▼ Knowledge and perception of malaria prevention measures among Tanzanian students and factors, associated with the ignorance of bed net use ..... (Poster p. 74)

**Zanda Bochkaeva**  
University of Dodoma, Tanzania



▼ A longitudinal cohort study of infant anemia in a marginalized population at the Thailand-Myanmar border: onset, risk factors and recovery ..... (Poster p. 115)

**Hellen Barsosio**  
KEMRI-Wellcome Trust



▼ Effectiveness of fipronil as a systemic control agent against *Xenopsylla cheopis* (Siphonaptera: Pulicidae) in Madagascar ..... (Poster p. 103)

**Dora Murielle Rajonhson**  
Faculty of Tropical Medicine, Mahidol University



▼ Seroprevalence of syphilis, cytomegalovirus and rubella infections in waste-blood samples ..... (Poster p. 33)

**Nyein Ko Hein**  
Defence Services Medical Research Centre, Myanmar



▼ Health Problems Among Thai Trekkers In Thailand: A Prospective Study ..... (Poster p. 113)

**Nujareenart Kuhakasemsin**  
Faculty of Tropical Medicine, Mahidol University

# JITMM2017

Wednesday 6 December 2017

15.45-17.15

Room A

## S10: Antimicrobial Resistance

### Chairpersons:



**Direk Limmathurotsakul**



**Ben Cooper**

### Invited speakers



- ▼ Epidemiology and Burden of Multidrug-resistant Bacterial Infection in a Developing Country..... p. 48

**Cherry Lim**

Mahidol-Oxford Tropical Research Unit



- ▼ Whole genome sequencing of ESBL-producing *E. coli* isolated from patients, farm waste and canals in Thailand..... p. 49

**Chakkaphan Runcharoen**

Faculty of Tropical Medicine, Mahidol University



- ▼ Impact of a multimodal hand hygiene improvement intervention in a 1000-bed hospital in NE Thailand: a stepped wedge clustered randomized controlled trial ..... p. 50

**Maliwan Hongsuwan**

Mahidol-Oxford Tropical Research Unit



- ▼ A spatial and temporal model for antibiotic resistance ..... p. 51

**Mathupanee Oonsivilai**

Mahidol-Oxford Tropical Medicine Research Unit



- ▼ Discriminating bacterial from viral causes of fever using the C-reactive protein (CRP): findings from a community-based clinical trial in Southeast Asia ..... p. 52

**Thomas Althaus**

Mahidol-Oxford Tropical Medicine Research Unit



- ▼ The impact of point of care CRP testing on antibiotic prescriptions and future studies in routine care ..... p. 53

**Rachel Greer**

Mahidol-Oxford Tropical Medicine Research Unit

**S10: Antimicrobial resistance**



- ▼ Model-based analytics for understanding the epidemiology and trends in multi-drug resistant bacteria in hospitalized patients in Thailand..... p. 54

**Jiraboon Tosanguan**

Mahidol-Oxford Tropical Medicine Research Unit

- ▼ Surveillance for antimicrobial resistant *Neisseria Gonorrhoea* globally and in Thailand ..... p. 55



**Pachara Sirivongrangson and Eileen F. Dunne**

Thailand MOPH - U.S. CDC Collaboration

**S11: Free paper II: Tropical Medicine I**

**Chairpersons:**



**Srisin Khusmith**



**Poom Adisakwattana**

**Speakers:**



- ▼ Different Mode of Induction of Galectin-9 and Osteopontin  
In THP-1 Cells Upon Dengue Virus Infection ..... p. 57

**Toshio Hattori**  
KIBI International University



- ▼ Incidence of Traveler's Diarrhea Among Adult Foreign Travelers in Thailand:  
A Prospective Study ..... p. 58

**Chollasap Sharma**  
Faculty of Tropical Medicine, Mahidol University



- ▼ SITE 1 protease (S1P) inhibitor, PF-429242 suppress dengue virus propagation  
*in vitro* ..... p. 59

**Leo Uchida**  
Nagasaki University



- ▼ The Characterisation of B Cell Epitopes and The Prediction of three Dimensional Ns1  
Protein structure of Japanese Encephalitis virus ..... p. 60

**Wipa Tangkananond**  
Thammasat University



- ▼ Immunopathological study of scrub typhus in rhesus macaques following intradermal  
inoculation of *Orientia tsutsugamushi* Karp and Gilliam strains ..... p. 61

**Piyanate Sunyakumthorn**  
Armed Forces Research Institute of Medical Sciences



- ▼ How the Schistosomiasis Control Initiative tracks value for money across sub-Saharan  
African national preventive chemotherapy programmes for schistosomiasis ..... p. 62

**Roya Karimnia**  
Imperial College London



- ▼ Incidence and Risk Factors of *Opisthorchis viverrini* Infection in a Rural Area  
of Central Thailand: Mixed-method Approach ..... p. 63

**Saruttaya Wongsuwanphon**  
Phramongkutklao College of Medicine

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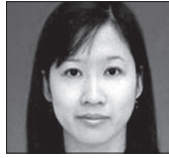
Wednesday 6 December 2017

15.45-17.15

Room C

## S12: Surveillance-response Approaches for Effective Elimination and Prevention of Reintroduction of Malaria (Sponsored by Vysnova Partners, Inc)

### Chairpersons:



**Mallika Imwong**



**Nicholas Day**

### Speakers



- ▼ Surveillance-response approaches for effective elimination and prevention of reintroduction of malaria ..... p. 65

**Marcel Tanner**

Swiss Tropical and Public Health Institute



- ▼ A spatial decision support system approach to implementing malaria surveillance as a core intervention activity in high priority Vietnam ..... p. 66

**Sara Canavati**

Mahidol-Oxford Tropical Research Unit



- ▼ Targeted-Reactive Investigation of Remote Area Sleeping Sites to Interrupt Malaria Transmission in Vietnam ..... p. 67

**Nguyen Quy Anh**

National Institute of Malaria, Parasitology, and Entomology

- ▼ Clinical and sub-clinical malaria in overseas laborers returning to Vietnam ..... p. 68

**Nicholas J. Martin**

The Naval Medical Research Center-Asia

Closing remarks and way forward by chairs

# JITMM2017

Wednesday 6 December 2017

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Room D

## S13: Turbo Talk II

### Chairpersons:



**Jetsumon Prachumsri**



**Ashley Vaughan**

### Speakers



- ▼ Haemolysis in G6PD heterozygous females treated with primaquine for *Plasmodium vivax malaria*: a nested cohort in a trial of radical curative regimens ..... (Poster p. 64)

**Cindy Chu**

Mahidol-Oxford Tropical Medicine Research Unit; Shoklo Malaria Research Unit



- ▼ Determination of organic acids produced by *Plasmodium falciparum* using liquid chromatography - mass spectrometry ..... (Poster p. 56)

**Parsakorn Tapaopong**

Mahidol Oxford Research Unit



- ▼ Exploring Pancreatic Pathology in Severe *Plasmodium falciparum* ..... (Poster p. 57)

**Supattra Glaharn**

Faculty of Tropical Medicine, Mahidol University



- ▼ Significance of characterizing microclimate conditions to derive extrinsic incubation period of malaria parasites in an urban malaria transmission setting in Chennai, India

**Alex Eapen**

ICMR - National Institute of Malaria Research, Chennai, India

(Poster p. 68)



- ▼ Malaria Case-Based Reporting mobile application: collaborative effort towards malaria elimination ..... (Poster p. 69)

**Su Yee Mon**

Save the Children International



- ▼ Variability in Antimalarial Drug Sensitivities across Regions in Cambodia may Pose Unique Challenges to National Malaria Program ..... (Poster p. 71)

**Chatchadaporn Thamnurak**

Department of Immunology and Medicine, AFRIMS



- ▼ Genetic Polymorphism and Natural Selection in the C-Terminal 42-Kda Region of Merozoite Surface Protein-1 in *Plasmodium falciparum* Myanmar Isolates

**Thi Lam Thai**

Gyeongsang National University School of Medicine, Republic of Korea

(Poster p. 58)



- ▼ Molecular Characterization of G6PD Deficiency in Malaria-Endemic Northeastern Region of India ..... (Poster p. 72)

**Ram Suresh Bharti**

ICMR-National Institute of Malaria Research, New Delhi, India

**S13: Turbo Talk II**



▼ Community Based Intervention towards Malaria and Dengue Fever Prevention and Control among Ethnic Minority Groups in Ratanakiri and Mondolkiri Province ..... (Poster p. 73)  
**Ratana Somrongthong**  
 College of Public Health Sciences, Chulalongkorn University



▼ Trafficking of merozoite adhesive erythrocyte binding-like protein in the human malaria parasite, *Plasmodium falciparum* ..... (Poster p. 59)  
**Serena Shunmugam**  
 University of the Witwatersrand, National Health Laboratory Service, Johannesburg, South Africa



▼ Zoonotic Helminths in Okinawa Main Island, Japan ..... (Poster p. 96)  
**Sumire Ikeda**  
 Graduate School of Health Sciences, Niigata University, Niigata, Japan



▼ Determination of the association between *Opisthorchis viverrini* infection and type 2 diabetes mellitus: an 8-year retrospective cohort study ..... (Poster p. 91)  
**Napatsorn Jaruratmongkol**  
 Phramongkutklao College of Medicine



▼ Species Diversity and Natural *Plasmodium* Infections in *Anopheles* Mosquitoes in a Malaria Endemic Area of Na Chaluai District, Ubon Ratchathani Province ..... (Poster p. 55)  
**Petchaboon Poolphol**  
 Chiang Mai University, Chiang Mai, Thailand



▼ Dynamics of *Aedes aegypti* Larvae in a Rural Area of Rattankiri and Mondukiri Provinces, Cambodia ..... (Poster p. 99)  
**Wannapa Suwonkerd**  
 Office of Disease Prevention and Control No 1, Department of Disease Control, MoPH, Thailand



▼ Effect of 350th amino acid substitution of Chikungunya virus 6K-E1 protein on its sensitivity in a rapid E1-antigen test ..... (Poster p. 25)  
**Aekkachai Tuekprakhon**  
 Faculty of Tropical Medicine Mahidol University



▼ UPLC-MSMS method development and validation of Atovaquone in human plasma for pharmacokinetic study ..... (Poster p. 111)  
**Winita Ta-aksorn**  
 Department of Immunology and Medicine, AFRIMS



▼ Most patients in Cambodia with treatment failure post atovaquone-proguanil lack cytb mutations in Y268 locus by Sanger sequencing ..... (Poster p. 112)  
**Mariusz Wojnarski**  
 US Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

# JITMM2017

Thursday 7 December 2017

9.00-10.30

Room A

## S14: The Challenge of Rabies Elimination: How to get success?

Chairperson:



**Sopon Iamsirithaworn**

### Invited Speakers

- ▼ Animals Free of Rabies: Human Are Safe From The Disease Project Under The Wish of Her Royal Highness Princess Chulabhorn ..... p. 72

**Apinan Suprasert**

Department of Disease Control, MOPH



- ▼ Strategy in Rabies Control and People Behavior ..... p. 73

**Sopon Iamsirithaworn**

Department of Disease Control, MOPH



- ▼ Animal Rabies: Is it possible to get rid? ..... p. 74

**Wirongrong Hoonsuwan**

Bureau of Disease Control and Veterinary Services

# JITMM2017

Thursday 7 December 2017

9.00-10.30

Room B

## S15: Update on Malaria Research (Sponsored by CIDR)

### Chairpersons:



**Jetsumon Prachumsri**



**Sebastian Mikolajczak**

### Speakers



- ▼ New tools for the generation of genetically attenuated *Plasmodium falciparum* for vaccine development..... p. 76

**Ashley Vaughan**

Center for Infectious Disease Research



- ▼ An improvement of hepatocyte cell line for a robust *in vitro* drug screening assay for exoerythrocytic stage of *P. vivax*..... p. 77

**Wanlapa Roobsong**

Mahidol Vivax Research Unit



- ▼ Perturbation of *Plasmodium vivax* hypnozoite formation, growth and reactivation *in vivo* in a human-liver chimeric mouse ..... p. 78

**Erika Flannery**

Center for Infectious Disease Research



- ▼ Plasmepsin V is essential for malaria parasite development in the liver..... p. 79

**Justin Boddey**

Center for Infectious Disease Research



- ▼ Cross-invasion inhibitory of *Plasmodium vivax* antibodies of monkey and human-adapted *P. knowlesi* parasites into host erythrocytes ..... p. 80

**Eun-Taek Han**

Kangwon National University, Republic of Korea



- ▼ Toward rational vaccine design for pre-erythrocytic malaria vaccines ..... p. 81

**Noah Sather**

Center for Infectious Disease Research

# JITMM2017

Thursday 7 December 2017

9.00-10.30

Room C

## S16: Antibodies Against Arboviruses

### Chairpersons:



Tatsuo Shioda



Pongrama Ramasoota

### Invited Speakers



- ▼ A single amino acid substitution in dengue virus envelope protein suppressed induction of infection-enhancing antibody in a mouse-DNA vaccine model..... p. 83

**Atsushi Yamanaka**

Osaka University



- ▼ Antibody Engineering at Fc Region to Diminish Antibody Dependent Enhancement of Cross-Neutralizing Human Monoclonal Antibody Against Dengue Virus ..... p. 84

**Pannamthip Pitaksajakul**

Faculty of Tropical Medicine, Mahidol University



- ▼ The dynamics of disease progression in severe dengue..... p. 85

**Takeshi Kurosu**

National Institute of Infectious Diseases, Japan



- ▼ Evaluation of immunochromatography rapid diagnosis kit strip for detection of chikungunya virus antigen in clinical samples of India ..... p. 86

**Tamaki Okabayashi**

University of Miyazaki, Japan



- ▼ Improving malaria rapid diagnostic using shark VNAR antibody..... p. 87

**Chiuan Heng Leow**

Institute for Research in Molecular Medicine

# JITMM2017

Thursday 7 December 2017

9.00-10.30

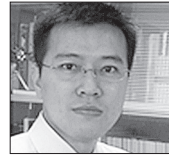
Room D

## S17: Research Update on Mekong Schistosomiasis (Organized by PTAT)

### Chairpersons:



**Padet Siriyasatien**



**Sonthaya Tiawsirisu**

### Invited Speakers



- ▼ Sex-specific genes of *Schistosoma mekongi*, target for drug and vaccine development..... p. 89

**Poom Adisakwattana**

Faculty of Tropical Medicine, Mahidol University



- ▼ Development of diagnostic and vaccine for *Schistosoma mekongi* using proteomics approach..... p. 90

**Onrapak Reamtong**

Faculty of Tropical Medicine, Mahidol University



- ▼ An update of distribution, habitats and densities of *Neotricula aperta*, snail intermediate host of blood fluke, *Schistosoma mekongi*, in Thailand..... p. 91

**Yanin Limpanont**

Faculty of Tropical Medicine, Mahidol University

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Thursday 7 December 2017

11.00-12.30

Room A

## S18: M/XDR-TB in Thailand: The Real Threat? (Sponsored by MOPH)

Chairperson:



Petchawan Pungrassami

### Invited Speakers

- ▼ Updated M/XDR-TB situation and control strategy in Thailand..... p. 93

**Phalin Kamolwat**

Department of Disease Control, Ministry of Public Health

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- ▼ Advanced laboratory tests for M/XDR-TB control and outbreak investigation..... p. 94

**Surakameth Mahasirimongko**

Department of Disease Control, Ministry of Public Health

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- ▼ Clinical management of M/XDR-TB ..... p. 95

**Charoen Chuchottaworn**

Department of Disease Control, Ministry of Public Health

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- ▼ Active drug safety monitoring for M/XDR-TB treatment..... p. 96

**Thidaporn Jirawattanapisal**

Department of Disease Control, Ministry of Public Health

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Thursday 7 December 2017

11.00-12.30

Room B

## S19: Ethical Issues in Human Subject Studies: Views from Four Sides (Panel Discussion)

### Chairpersons:



Jaranit Kaewkungwal



Saranath Lawpoolsri Niyom

### Invited Speakers

▼ View from Ethics Committee..... p. 98

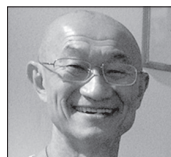
#### Tada Sueblinvong



▼ View from Investigator..... p. 99

#### Direk Limmathurotsakul

Faculty of Tropical Medicine, Mahidol University



View from Community Member..... p. 100

#### Udom Likhitwonnawut

NCAB



▼ View from Sponsor: Ethical issues in studies involving human subjects ..... p. 101

#### Carina Frago

Sanofi-Aventis Singapore Pte Ltd

# JITMM2017

Thursday 7 December 2017

11.00-12.30

Room C

## S20: Current Research on Microbial Infections in the Tropics

### Chairpersons:



Narisara Chantratita



Pornsawan Leungwutiwong

### Invited Speakers



- ▼ Development of a multivalent subunit vaccine that provides sterilizing immunity against melioidosis ..... p. 103

**Paul J. Brett**

University of Nevada, Reno School of Medicine, USA



- ▼ Imipramine Inhibits Chikungunya Virus Replication in Human Skin Fibroblasts through Interference with Intracellular Cholesterol Trafficking ..... p. 104

**Sineewanlaya Wichit**

Faculty of Medical Technology, Mahidol University



- ▼ Hepatitis E: A silent infection in Thailand..... p. 105

**Yong Poovorawan**

Faculty of Medicine, Chulalongkorn University

# JITMM2017

Thursday 7 December 2017

11.00-12.30

Room D

## S21: Challenges: Academia-Industry Collaborations in Development of Drugs and Vaccines

### Chairpersons:



**Nares Damrongchai**



**Thanat Chookajorn**

### Invited Speakers



- ▼ Challenges in implementing clinical R&D road map to achieve Thailand 4.0 national plan: investigator perspective ..... p. 107

**Punnee Pitisuttithum**

Faculty of Tropical Medicine, Mahidol University



- ▼ Open innovation at DDW: current and future perspectives of our collaboration model between pharmaceutical and academic research ..... p. 108

**Francisco Javier Gamo**

GlaxoSmithKline, Tres Cantos, Spain



- ▼ Public Private Partnership in HIV vaccine Research and Development ..... p. 109

**Nelson Michael**

# JITMM2017

Thursday 7 December 2017

12.30-13.15

Room C

## Lunch Symposium

Grantsmanship: the art of obtaining grant for research

Moderator:



**Jetsumon Prachumsri**

Invited Speakers:

▼ Funder-researcher relationship ..... p. 111

**Julie A Boylan**

United States Department of Defense



▼ Tips for a successful fellowship application to the Wellcome Trust ..... p. 112

**Michael Chew**

Science Portfolio Advisor, Wellcome Trust, UK

# JITMM2017

Thursday 7 December 2017

14.00-15.30

Room A

## S22: Involving the Community is Key to Effective Research: The HIV Prevention Research Experience

### Chairpersons:



Anupong Chitwarakorn



Chaiwat Ungsedhapand

### Invited Speakers



▼ The importance of the Community Advisory Board (CAB) ..... p. 114

#### Rapeepun Jommaroeng

Multiple Sexuality Community Advisor Board (M-CAB)



▼ Community Engagement from the Researcher's Perspective ..... p. 115

#### Anchalee Varangrat

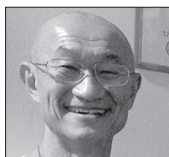
Thailand MOPH – U.S. CDC Collaboration



▼ How to Begin Community Engagement? ..... p. 116

#### Wipas Wimonsate and Ms. Farida Langkafah

Thailand MOPH - US CDC Collaboration



▼ Is CAB effective in community engagement? Confession of an optimist ..... p. 117

#### Udom Likhitwonnawut

NCAB

# JITMM2017

Thursday 7 December 2017

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Room B

## S23: Progress towards developing vaccines against *Plasmodium vivax*

Chairperson:



John Adams

### Invited Speakers



- ▼ Rational development of *Plasmodium vivax* pre-erythrocytic vaccines: towards better efficacy using Virus-Like Particles..... p. 119

**Arturo Reyes-Sandoval**

The Jenner Institute / University of Oxford



- ▼ A PfRH5-like protein in *P. vivax*? ..... p. 120

**Wang Nguitragool**

Faculty of Tropical Medicine, Mahidol University



- ▼ Long-term memory B cell responses in Thai patient to *P. vivax* Duffy binding protein ..... p. 121

**Patchanee Chootong**

Faculty of Medical Technology, Mahidol University



- ▼ An engineered vaccine of the *Plasmodium vivax* Duffy binding protein enhances induction of broadly neutralizing antibodies..... p. 122

**John Adams**



- ▼ Transferrin receptor 1 is a reticulocyte-specific receptor for *Plasmodium vivax*..... p. 123

**Wai-Hong Tham**

The Walter and Eliza Hall Institute

# JITMM2017

Thursday 7 December 2017

14.00-15.30

Room C

## S24: Research Data Sharing Controversy

### Chairpersons:



**Phaik Yeong Cheah**



**Mehul Dhorda**

### Invited Speakers



- ▼ Population Pharmacokinetic Properties of Piperaquine in Falciparum Malaria:  
An Individual Participant Data-level Meta-analysis ..... p. 125

**Joel Tarning**

Mahidol-Oxford Tropical Research Unit



- ▼ Real-time data sharing ..... p. 126

**Suttipat Srisutham**

Mahidol-Oxford Tropical Research Unit



- ▼ Data sharing – current practices and guidelines ..... p. 127

**Phaik Yeong Cheah**

Mahidol-Oxford Tropical Research Unit



- ▼ Data sharing: case studies and current practices (panel discussion) ..... p. 128

**Mehul Dhorda**

Worldwide Antimalarial Resistance Network

# JITMM2017

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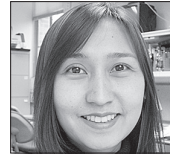
Room D

## S25: Red Queen's Race: Malaria Drug Resistance vs. Drug Development

### Chairpersons:



Prapon Wilairat



Rapatbhorn Patrapuvich

### Invited Speakers



▼ Advances on the development of next generation differentiated antimalarial drugs *p. 130*

**Francisco Javier Gamo**

GlaxoSmithKline, Tres Cantos, Spain



▼ Membrane transport proteins as antimalarial drug targets ..... *p. 131*

**Kieran Kirk**

Australian National University



▼ Protein translation enzymes as druggable targets in malaria parasites ..... *p. 132*

**Amit Sharma**

International Centre for Genetic Engineering and Biotechnology



▼ Mutability of malaria parasites ..... *p. 133*

**Pradipsinh Rathod**

University of Washington

# JITMM2017

Thursday 7 December 2017

16.00-17.30

Room A

## S26: Helminthology

### Chairpersons:



Dorn Wathanakulpanich



Zhiyue Lv

### Invited Speakers



- ▼ The role of domestic dogs in the transmission of zoonotic helminthes in a rural area of Mekong river basin ..... p. 135

**Megumi Sato**

Graduate School of Health Sciences, Niigata University



- ▼ Environmental DNA as a tool for surveillance and control of NTDs and its application in opisthorchiasis and schistosomiasis endemic areas ..... p. 136

**Marcello Otake Sato**

Dokkyo Medical University, Japan



- ▼ Transmission of *Opisthorchis viverrini*, *Schistosoma mekongi* and soil-transmitted helminthes on the Mekong Islands, Southern Lao PDR..... p. 137

**Youthanavanh Vonghachack**

University of Health Sciences, Vientiane, Lao PDR



- ▼ Intestinal Parasitic Infections in School-aged Children and Molecular Speciation of Hookworms, and *Strongyloides sp.*, and Genotyping of *Giardia intestinalis* in East Sikkim, India ..... p. 138

**Shantikumar Singh Takhellambam**

Sikkim Manipal Institute of Medical Sciences, Gangtok, Sikkim, India

# JITMM2017

Thursday 7 December 2017

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Room B

## S27: Antimalarial drug discovery and Resistance

### Chairpersons:



John Adams



Chairat Uthaipibull

### Invited Speakers



▼ MMV portfolio of drug discovery projects with academic and pharma partners ..... p. 140

#### Javier Gamo

Medicines for Malaria Venture



▼ Drug target prioritization for *Plasmodium falciparum* by whole-genome saturation mutagenesis ..... p. 141

#### John Adams

University of South Florida



▼ Experimental systems to validate targets and study of antimalarial drug resistance mechanisms ..... p. 142

#### Chairat Uthaipibull

National Center for Genetic Engineering and Biotechnology (BIOTEC)



▼ Optimising dosing of antimalarials to prevent drug resistance ..... p. 143

#### Ric Price

Menzies School of Health Research

# JITMM2017

Thursday 7 December 2017

16.00-17.30

Room C

## S28: Free Paper III: Tropical Medicine II

### Chairpersons:



Aongart Mahittikorn



Wanlapa Roobsoong

### Speakers



- ▼ Novel animal models to identify PK/PD relationships for gut localized pathogens . . . p. 145

**Samuel L. Arnold**

University of Washington



- ▼ Biogents Sweetscent lure increases the collection rate of *Aedes aegypti* and *Aedes albopictus* in commercially available homeowner mosquito traps . . . . . p. 146

**Ingeborg Schleip**

Biogents AG



- ▼ Two Plus One: The Combination of Two Passive and One Active Mosquito Traps May Well Be an *Aedes (Stegomyia)* Control Tool Worthy of Attention . . . . . p. 147

**Martin Geier**

Biogents AG



- ▼ *Anopheles* Species Diversity and Biting Behavior of Incriminate as Malaria Vectors in a High Prevalence Malaria Area of Tak Province, Western Thailand . . . . . p. 148

**Chatchai Tananchai**

Kasetsart University



- ▼ Making Automatic Mosquito Monitoring Smarter: Counting and Identifying Mosquito Species Using the New BG-Counter . . . . . p. 149

**Jennifer McCaw**

Biogents AG



- ▼ A 3-year regional *P. falciparum* elimination program in Eastern Kayin State, Myanmar: impact of generalized access to early diagnosis and treatment and of hotspot-targeted mass drug administration . . . . . p. 150

**Jordi Landier**

Shoklo Malaria Research Unit

# JITMM2017

Thursday 7 December 2017

16.00-17.30

Room D

## S29: Free Paper IV: Tropical Medicine III

### Chairpersons:



Wirongrong Chierakul



Muthita Vanaporn

### Speakers



- ▼ Six years of quality improvement in clinics in remote areas of Myanmar..... p. 152

**Andrew Silver**

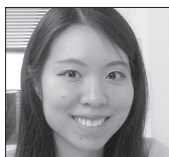
Karen Department of Health and Welfare



- ▼ Incidence and risk factors for acute mountain sickness among Thai travelers to high-altitude areas..... p. 153

**Akkavich Harnnavachok**

Faculty of Tropical Medicine, Mahidol University



- ▼ Compliance and reported adverse effects of malaria chemoprophylaxis among travelers: a prospective study..... p. 154

**Jitfa Loorungroj**

Faculty of Tropical Medicine, Mahidol University



- ▼ Triple ACTs for the treatment of uncomplicated *falciparum malaria*..... p. 155

**Rob van der Pluijm**

Mahidol-Oxford Tropical Research Unit



- ▼ CRISPR-Cas9 in *P. knowlesi* enables rapid, iterative and scalable targeted modification of the parasite genome..... p. 156

**Robert Moon**

London School of Hygiene and Tropical Medicine



- ▼ Factors affecting diphtheria-Tetanus toxoid mass campaign vaccination among upper northeastern population..... p. 157

**Kanlaya Skulthai**

Silpakorn University

# JITMM2017

Thursday 7 December 2017

16.00-17.30

Room D

## S29: Free Paper IV: Tropical Medicine III

### Speakers



- ▼ Five-Year Antibody Persistence following a Booster Dose of Live-Attenuated Japanese Encephalitis Vaccine (Imojev®) in Children ..... p. 158

**Danaya Chansinghakul**  
Sanofi Pasteur



- ▼ Progress in Takeda's Tetravalent Dengue Vaccine Candidate Development..... p. 159

**Vianney Tricou**  
Takeda Vaccines Pte Ltd, Singapore

# JITMM2017

Friday 8 December 2017

9.00-10.30

Room A

## S30: Extending the Frontiers of Vector Control

### Chairpersons:



Ronald Enrique Morales Vargas    Narumon Komalamisra

### Invited Speakers



- ▼ WIN: The Worldwide Insecticide resistance Network ..... p. 161

**Waraporn Juntarajumnong**

Kasetsart University



- ▼ Assessing durability of long-lasting insecticidal mosquito nets in Tanzania 3 years after distribution: preliminary results ..... p. 162

**Hans J. Overgaard**

Norwegian University of Life Sciences



- ▼ Entomological observations surrounding a mass drug administration trial against lymphatic filariasis in Papua New Guinea ..... p. 163

**Stephan Karl**

Walter and Eliza Hall Institute of Medical Research



- ▼ Reproductive biology and mating behavior of the dengue vector, *Aedes aegypti*: potential targets for vector control ..... p. 164

**Laura C. Harrington**

Northeast Regional Center for Excellence in Vector Borne Diseases

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Room B

## S31: Environmental Health, Toxicology, and Biotechnology

### Chairpersons:



Pongrama Ramasoota



Kraichat Tantrakarnapa

### Speakers



- ▼ Assessing the Health Impacts from Air Pollution in Thailand ..... p. 166

**John Cherrie**

Institute of Occupational Medicine and Heriot Watt University



- ▼ Potential impact of climate change on the formation of brominated trihalomethanes in water supply systems in central Thailand ..... p. 167

**Suthirat Kittipongvises**

Environmental Research Institute, Chulalongkorn University



- ▼ Health Risk and Health Care Access: Research Experiences among Cambodian Fruit Farm Workers in Eastern Thailand ..... p. 168

**Anamai Thetkathuek**

Faculty of Public Health, Burapha University



- ▼ The domino effect: correct identification of introduced freshwater snails and implications for future research ..... p. 169

**Ting Hui Ng**

Faculty of Science, Chulalongkorn University



- ▼ Organic Antimicrobial products from Sea shells and Mangosteen peels extract ..... p. 170

**Pongrama Ramasoota**

Faculty of Tropical Medicine, Mahidol University

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9.00-10.30

Room C

## S32: Drug Resistance (Sponsored by MORU and Royal Society of Tropical Medicine and Hygiene)

### Chairpersons:



Simon Cathcart



Nicholas Day

### Speakers



- ▼ Royal Society of Tropical Medicine and Hygiene - alignment, allegiance and impact over the next 5 years ..... p. 172

**Tamar Ghosh**

Royal Society of Tropical Medicine & Hygiene



- ▼ Drug resistant malaria – a risk assessment ..... p. 173

**Nicholas White**

Mahidol-Oxford Tropical Research Unit



- ▼ Antibiotic footprint of human and chicken meat in Thailand ..... p. 174

**Direk Limmathurotsakul**

Mahidol-Oxford Tropical Research Unit



- ▼ Epidemiology of drug resistant malaria ..... p. 175

**Richard Maude**

Mahidol-Oxford Tropical Research Unit



- ▼ Two physiological origins of malaria artemisinin resistance in the Greater Mekong Sub-region ..... p. 176

**Zbynek Bozdech**

School of Biological Sciences, Nanyang Technological University, Singapore

**S33: Closing Session**  
**Sornchai Looareesuwan Medal Lecture**

Chairperson:



## “The Induced Blood Stage Malaria Model: A Tool to Accelerate The Development of New Interventions Against Malaria”



**Keynote Speaker**

### **James McCarthy**

QIMR Berghofer Medical Research Institute, Brisbane, Australia

Over the last 15 years the number of deaths caused by malaria has fallen by 63% globally as a result of better access to medicines and the deployment of insecticide-treated bed-nets. This has led to the more ambitious goal of the eventual elimination of malaria. However, progress achieved towards malaria elimination is challenged by the development of resistance to ACTs in the Greater Mekong Subregion. Paradoxically, the fall in the incidence of malaria is significantly hampering the clinical testing of new antimalarial drugs and vaccines. Over the past 7 years, the QIMR Berghofer team has developed a human malaria challenge model, the induced blood stage malaria (IBSM) model. This builds on the pioneering work of Professor Sornchai Looareesuwan where he tested experimental drugs in natural infection. We have used the IBSM system to undertake early phase clinical trials of 7 novel antimalarial drugs, 4 of which have progressed to Phase IIb field trials. As well, we have developed a clinical trial system for experimental *Plasmodium vivax* infection, the commonest species of malaria in the Asia-Pacific, and have developed *in vivo* systems to explore transmission of malaria from experimentally infected humans to mosquitos; this enables testing of transmission-blocking interventions. Results of these studies will be reviewed and future directions of this system will be discussed

*Professor McCarthy is a clinician research scientist who has dedicated his career to Malarial and Tropical Diseases research. His work is wide ranging in the area of tropical medicine, but his most significant contribution, and the basis of this proposal, has been the development of a human challenge system, the Induced Blood Stage Malaria (IBSM) model, for malaria. He has made paradigm-shifting contributions to malarial research through the development of a world-first, controlled malaria infection system for the testing of anti-malarial drugs in human volunteers.*

## List of Poster Presentations

Poster No.	Title	Presenter
1	Characteristics of Dengue Hemorrhagic Fever Patients in Haji Adam Malik Hospital Medan	Rina Yunita
2	Assessment of factors associated with dengue mortality in Fiji, 2014: A case control study	Aneley Getahun
3	The Seroprevalence of neutralizing antibody against dengue virus in healthcare workers	Warunee Punpanich Vandepitte
4	Antiviral activity of bismuth derived chemical compound against dengue virus serotype 2	Babu Ramanathan
5	Current genotype distribution of dengue viruses in Thailand	Juthamas Phadungsombat
6	Evaluation of a Rapid Diagnostic Test for Dengue Virus Infection in Bali, Indonesia	Araniy Fadhilah Faisal
7	A survey of knowledge, attitudes, practices and beliefs on the application of Indoor Residual Spraying (IRS) for dengue control in Penang, Malaysia	Hadura Abu Hasan
8	Immunological and entomological indices to evaluate the risk of dengue transmission in northeastern Thailand	Benedicte Fustec
9	Dengue seasonal variation and prediction model in Khon Kaen Province, Thailand	Thipruethai Phanitchat
10	Immunological characteristics on dengue virus infected patients at National Hospital of Tropical Diseases	Nguyen Thi Nhu Ha
11	Association between adiposity and dengue severity: A systematic review and meta-analysis	Mohd Syis Zulkipli
12	Knowledge, attitude and preventive behaviors regarding dengue infection among local population in Ao Nang, Krabi Province, Southern Thailand	Supawadee Pongsombat
13	Biology of Zika virus infection in human skin cells	Rodolphe Hamel
14	Development of the cost and time saving Zika virus detection method by real time RT-PCR in response for 2016 outbreak in Thailand	Pattara Wongjaroen
15	The infectivity of Zika virus in swine sperm	San Suwanmanee
16	Construction of the recombinant antigen for the immunodiagnosis of Zika virus infection	Narin Thippornchai
17	Dengue and Zika Viral Infections in Patients with Acute Febrile Illness in Northeastern Thailand	Sirinart Aromseree
18	Effect of 350th amino acid substitution of Chikungunya virus 6K-E1 protein on its sensitivity in a rapid E1-antigen test	Aekkachai Tuekprakhon
19	The comparison of vector competence between <i>Aedes aegypti</i> and <i>Aedes albopictus</i> mosquitoes for Chikungunya virus	Sonthaya Tiawsirisup
20	Quality of Life of patients living with Human Immunodeficiency Virus Infection – Evidence from South India	Asmin Sha
21	Mother To Child HIV&AIDS Transmission Occurrence In Regional Public Hospital Merauke District, Papua In 2010-2014	Iratara Panjaitan

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22	Hepatitis C associated Oral lichen planus management using Direct-acting Antivirals	Dexton Johns
23	Cross-neutralizing antibodies in Hand, Foot and Mouth Disease patients.	Nguyet Lam
24	Evolution of Coxsackievirus A6: an emerging pathogen of hand, foot and mouth disease	Nhu Le Nguyen Truc
25	Role of mycovirus in <i>Bipolaris maydis</i>	Potjaman Pumeesat
26	Seroprevalence of syphilis, cytomegalovirus and rubella infections in waste-blood samples	Nyein Ko Hein
27	Japanese encephalitis among pediatric patients in Nueva ecija, Philippines: A cross-sectional, analytical study	Jo Ann Torio
28	Prevalence of latent tuberculosis infection among schoolchildren by tuberculin skin test and radiological method	Kyaw Soe Htun
29	The Factors related to default and Failure Treatment of MDR-TB Patient in the Lower Part of Northeast, Thailand	Orathai Srithongtham
30	<i>Mycobacterium tuberculosis</i> drugs resistance profile along the Thailand-Myanmar border	Michele Delmas-Vincenti
31	Evaluation of the GenXpert MTB/RIF in presumptive tuberculous meningitis patients	Tatiana Metcalf
32	Therapeutic response: a diagnostic criterion in cutaneous tuberculosis	MariaVinna Crisostomo
33	Distribution pattern of aerosolized <i>Mycoplasma bovis</i> with environmental aerosols under different humidity levels	Jun Noda
34	Proteomic study of <i>Burkholderia pseudomallei</i> after serial passages in Luria-Bertani medium	Taksaon Duangurai
35	Pathogenesis in human skin fibroblast ; a truely skin infection model of <i>Burkholderia pseudomallei</i>	Anek Kaewpan
36	Functional characterization of short-chain dehydrogenase/oxidoreductase (SDR) from <i>Burkholderia pseudomallei</i>	Usa Boonyuen
37	Innovation for diagnosis of melioidosis	Phornpun Phokrai
38	Correlation of clinical and environmental isolates of <i>Cryptococcus neoformans</i> in urban area, Indonesia	Machrumnizar Denny Machtovani
39	Leptospirosis : An Emerging Cause of Febrile Illness in Nepal	Palpasa Kansakar
40	Molecular detection of <i>Leptospira</i> in environmental samples collected from regions with high incidence of human leptospirosis in the Philippines	Marjo Mendoza
41	Development of monoclonal antibody-based dot-blot ELISA for the detection of <i>Listeria monocytogenes</i> in food	Nitaya Indrawattana
42	Nationwide seroprevalence of scrub typhus among young Thai men, 2007–2008	Siriphan Gonwong
43	Cloning pEAQ-HT-ZIKV-SP in <i>Escherichia coli</i> for transient expression in tobacco plants	Suppadej Sriwatthanavanich

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44	A serologic survey using ELISA to determine the prevalence of Q Fever among Royal Thai Army recruits, 2012	Nattaya Ruamsap
45	Association of biofilm and secreted proteinase in <i>Candida albicans</i> clinical isolates	Srisuda Pannanusorn
46	Effect of ultraviolet light type C on <i>Scedosporium spp.</i>	Watcharamat Muangkaew
47	Nosocomial infection related with outcome in patient with acute stroke in Bethesda Hospital, Yogyakarta, Indonesia	Maria Silvia Merry
48	Species Diversity and Natural <i>Plasmodium</i> Infections in <i>Anopheles</i> Mosquitoes in a Malaria Endemic Area of Na Chaluai District, Ubon Ratchathani Province	Petchaboon Poolphol
49	Determination of organic acids produced by <i>Plasmodium falciparum</i> using liquid chromatography - mass spectrometry	Parsakorn Tapaopong
50	Exploring Pancreatic Pathology In Severe <i>Plasmodium falciparum</i> Malaria	Supattra Glaharn
51	Genetic polymorphisim and natural selection in the C-terminal 42-kDa region of merozoite surface protein-1 in <i>Plasmodium falciparum</i> Myanmar isolates	Thi Lam Thai
52	Trafficking of merozoite adhesive erythrocyte binding-like protein in the human malaria parasite, <i>Plasmodium falciparum</i>	Serena Shunmugam
53	Genetic polymorphism of circumsporozoite protein in <i>Plasmodium falciparum</i> field isolates from Myanmar	Huong Giang Le
54	Population genetic structure and natural selection of <i>Plasmodium falciparum</i> apical membrane antigen-1 in Myanmar isolates	Byoung-Kuk Na
55	Studying the function of key mitochondrial proteins of <i>Plasmodium falciparum</i> in <i>Sacchomyces cerevisiae</i>	Savitha Chellappan
56	Effects of hypo and hyper body temperature (37°C) on the erythrocytic stage development of <i>Plasmodium Falciparum</i>	Yutatirat Singhaboot
57	Haemolysis in G6PD heterozygous females treated with primaquine for <i>Plasmodium vivax</i> malaria: a nested cohort in a trial of radical curative regimens	Cindy Chu
58	<i>Plasmodium vivax</i> invasion ligand diversity in low endemic areas of South America	Fabian Saenz
59	Identification of mutations in Pfm-dr-1, Pfatp6, Pvmdr-1 and Pvcr(t) genes in <i>Plasmodium falciparum</i> and <i>Plasmodium vivax</i> from northern India	Prabhat Ranjan
60	The first case investigation of <i>Plasmodium knowlesi</i> , Saraburi province, Thailand, June 2017	Rujira Lerdprom
61	Significance of characterizing microclimate conditions to derive extrinsic incubation period of malaria parasites in an urban malaria transmission setting in Chennai, India	Alex Eapen
62	Malaria Case-Based Reporting mobile application: collaborative effort towards malaria elimination	Su Yee Mon

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63	Active Surveillance Malaria in Srisaket province along Thai – Cambodia Borders	Udomsin Ratanatongchai
64	Variability in antimalarial drug sensitivities across regions in Cambodia may pose unique challenges to National Malaria Program	Chatchadaporn Thamnurak
65	Molecular characterization of G6PD deficiency in malaria-endemic northeastern region of india	Ram Suresh Bharti
66	Community Based Intervention towards Malaria and Dengue Fever Prevention and Control among Ethnic Minority Groups in Ratanakiri and Mondolkiri Province	Ratana Somrongthong
67	Knowledge and perception of malaria prevention measures among Tanzanian students and factors, associated with the ignorance of bed net use	Zanda Bochkaeva
68	Natural malaria vector status in the hot spot villages of Western Thailand and implication for control of malaria transmission	Patchara Sriwichai
69	Individual and household factors associated with village malaria incidences in Xepon district, Savannakhet province, Lao PDR	Nouhak Inthavong
70	The integrated action plans of national malaria elimination in Thailand: the area studied is in the North East and the East of Thailand	Chantana Sowat
71	Differential detection of <i>Blastocystis</i> subtype in human stool samples by a multiplex PCR assay	Tengku Shahrul Anuar
72	Epidemiological study of <i>Blastocystis</i> infection in a rural community, Thailand	Prapararat Peampetkul
73	Subtype Distribution of <i>Blastocystis</i> spp. in Domestic Animals of Communities living along Chao Phraya River, Ayutthaya Province	Supaluk Popruk
74	Molecular characterization of <i>Blastocystis</i> sp. in cane toads ( <i>Rhinella marina</i> ) and cockroaches ( <i>Periplaneta americana</i> ) from the Philippines	Davin Edric Adao
75	Comparison of DNA Extraction Methods from Stool Samples for PCR Detection of <i>Blastocystis</i> spp.	Panachai Nimitpanya
76	Genotyping of <i>Cryptosporidium meleagridis</i> from edible bivalves obtained from Las Piñas Paranaque Critical Habitat and Ecotourism Area, Philippines	Edison Jay Pagoso
77	Vision Threatening Amoeba: Morphological And Molecular Based Evidence From Corneal Specimens Isolated In Malaysia	Rosnani Hanim Mohd Hussain
78	Cutaneous leishmaniasis – diagnostic and therapeutical challenges in an old disease	Hagen Elmar Elsner
79	Antigenicity of <i>Trichinella spiralis</i> glycoproteins	Tipparat Thiangtrongjit
80	Epigenetic and genetic variation in Strongyloides in relation to different conditions of hosts and drug resistance	Chatchawan Sengthong
81	Prevalence and Risk Factors of Soil-transmitted Helminth Infections among School-age Children in Narathiwat Province	Nutnicha Khwansay
82	Natural Infection with A Filarial Larva of A Man-biting Black Fly, Simulium nigrogilvum (Diptera: Simuliidae), in Chiang Mai Province, Northern Thailand	Kittipat Aupalee
83	Knowledge, attitude and practice survey on schistosomiasis among pupils in Mbita, Western Kenya	Rie Takeuchi

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84	Determination of the association between <i>Opisthorchis viverrini</i> infection and type 2 diabetes mellitus : an 8-year retrospective cohort study	Napatsorn Jaruratmongkol
85	An investigation of trematode metacercariae infection in cyprinoid fish from a fresh water reservoir in Udon Thani, Thailand.	Nipawan Labbunruang
86	Trematode infection among the intermediate host at Nam-Phee dam project under the royal projects.	Worayuth Nak-ai
87	Molecular identification of virgulate cercaria from snails in family Bithyniidae, Thailand	Jutharat Kulsantiwong
88	Gastrointestinal infections in deployed US military personnel to Thailand (Cobra Gold-2015)	Patchariya Khantapura
89	Zoonotic helminths in Okinawa main island, Japan	Sumire Ikeda
90	Biosurveillance of zoonotic diseases using qPCR in Tanzania	Shabani Motto
91	Survey of Helminth infection in Karen Population Na Kian community, Omkoi District of Chiang Mai Province.	Picha Suwannahitatorn
92	Dynamics of <i>Aedes aegypti</i> larvae in a rural area of Rattankiri And Mondukiri provinces, Cambodia	Wannapa Suwonkerd
93	Study of Biological Behaviour of Mosquito Bites of Anopheles sp. as Malaria Vector in Banjarmangu Sub-District, Banjarnegara District, Central Java, Indonesia	Eny Sofiyatun
94	Differential gene expression of the <i>Plasmodium</i> -infected and non-infected Anopheles mosquitoes at 18 hours post feeding	Anchane Kubera
95	Excito-repellency properties of essential Oil from <i>Micromelum minutum</i> Wight & Arn. against laboratory population of <i>Aedes aegypti</i> and <i>Ae. albopictus</i> (Diptera:Culicidae)	Walailuk Pronphol
96	Effectiveness of fipronil as a systemic control agent against <i>Xenopsylla cheopis</i> (Siphonaptera: Pulicidae) in Madagascar	Dora Murielle Rajonhson
97	Detection of human intestinal parasites from synantropic flies in Klong Luang District, Pathum Thani Province	Prasert Saichua
98	A modified CMU fly trap to control populations of medically important blow flies	Sangob Sanit
99	DNA-based identification of forensically important flesh flies (Diptera: Sarcophagidae) in Thailand	Chutharat Samerjai
100	Effects of human and rhesus macaque blood meal sources for optimization of reproduction and adult survivorship of mosquitoes under laboratory conditions	Jaruwan Tawong
101	Diversity of mosquito species in the <i>Plasmodium gallinaceum</i> endemic area of Nakhon Sri Thammarat province, southern Thailand	Sorawat Thongsahuan
102	Five New Species of Black Flies (Diptera: Simuliidae) in Thailand	Wichai Srisuka
103	Development of Health Education Program on pediculosis in girl school children at Amphoe Muang, Khon Kaen Province, Thailand	Manachai Yingklang

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105	Most patients in Cambodia with treatment failure post atovaquone-proguanil lack cytb mutations in Y268 locus by Sanger sequencing	Mariusz Wojnarski
106	Health problems among Thai trekkers in Thailand: a prospective study	Nujareenart Kuhakasemsin
107	Beedi rolling on oral health of women beedi rollers of Mangalore- a cross sectional study	Pooja Shetty
108	A longitudinal cohort study of infant anemia in a marginalized population at the Thailand-Myanmar border: onset, risk factors and recovery	Hellen Barsosio
109	Factors related to nutritional status of under-five-year rural children in mine-maw station, Mandalay region, Myanmar	Zaw Thein Htet
110	Role of conditioned natural killer cells in cancer immunology	Shih-Wen Huang
111	Identification of Specific Biomarker Genes for Separating Intrahepatic Cholangiocarcinoma Subtype using Quantitative Real-Time Reverse Transcription Polymerase Chain Reaction	Thitiluck Swangsri
112	Tiny beasts in seeds with killing effects!!	Bhakti Sadhu
113	The Driven Mechanism Development of the Integrated NCD (Non Communicable Disease) Quality Clinic of the Academic Center Network in the Area Responsibility of the Office of Disease Prevention and Control Region 10, Ubon Ratchathani	Jutipon Ponkerd
114	Is The Health System Ready To Respond To The Burden Of Non-Communicable Diseases (NCDs)? Health Facility Assessment In Myanmar (2015)	Nyein Su Aye
115	Knowledge, attitudes, practices, and self-treatment of sick international travelers regarding communicable and non-communicable diseases	Ranida Poksiri
116	Care for U-5 Sick Children by the Caregivers in Palu City, Indonesia: Exploring the Practice and Its Potential Affecting Factors	Agus Setiawan
117	The Effectivity Of Hand Washing Method In Reducing Total Bacteria Colony Among Nurses In Sumatera Utara University Hospital	Tetty Aman Nasution
118	Pattern of drug use and sexual behavior among young males 15-24 years old in Quangninh province, Vietnam	Viet Anh Tran
119	Method of Stool Preservations for DNA Isolation	Yuliana Yuliana
120	The influence of factors on behavior toward smog problem management of people in community: a case study of Ban Hong Luang, Lumphun province	Nantawadee Pinpankong
121	Suppressors Specific for HER2/4 (Human Epidermal Growth Factor Receptor 2/4): a New Family of Anti-Toxoplasmic Agents	Howoo Nam

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